Foreword

Welcome to the growing family of new NISSAN owners. This vehicle is delivered to you with confidence. It was produced using the latest techniques and strict quality control.

This manual was prepared to help you understand the operation and maintenance of your vehicle so that you may enjoy many miles of driving pleasure. Please read through this manual before operating your vehicle.

A separate Warranty Information and Maintenance Log Booklet explains details about the warranties covering your vehicle and vehicle maintenance schedules.

Your NISSAN dealer knows your vehicle best. When you require any service or have any questions, he will be glad to assist you with the extensive resources available to him.

READ FIRST — THEN DRIVE SAFELY

Before driving your vehicle please read your Owner's Manual carefully. This will ensure familiarity with controls and maintenance requirements, assisting you in the safe operation of your vehicle.

⚠ WARNING

IMPORTANT SAFETY INFORMATION
REMINDERS FOR SAFETY!

Follow these important driving rules to help ensure a safe and comfortable trip for you and your passengers!

- **Never drive under the influence of alcohol or drugs.**
- **Always observe posted speed limits and never drive too fast for conditions.**
- **Always use your seat belts and appropriate child restraint systems. Preteen children should be seated in the rear seat.**
- **Always provide information about the proper use of vehicle safety features to all occupants of the vehicle.**
- **Always review this Owner's Manual for important safety information.**

MODIFICATION OF YOUR VEHICLE

This vehicle should not be modified. Modification could affect its performance, safety or durability, and may even violate governmental regulations. In addition, damage or performance problems resulting from modification may not be covered under NISSAN warranties.

WHEN READING THE MANUAL

This manual includes information for all options available on this model. Therefore, you may find some information that does not apply to your vehicle.

All information, specifications and illustrations in this manual are those in effect at the time of printing. NISSAN reserves the right to change specifications or design at any time without notice.

IMPORTANT INFORMATION ABOUT THIS MANUAL

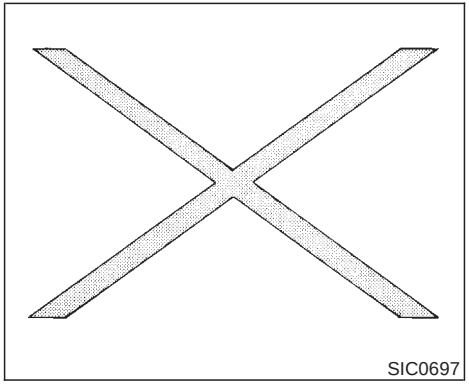
You will see various symbols in this manual. They are used in the following ways:

⚠ WARNING

This is used to indicate the presence of a hazard that could cause death or serious personal injury. To avoid or reduce the risk, the procedures must be followed precisely.

⚠ CAUTION

This is used to indicate the presence of a hazard that could cause minor or moderate personal injury or damage to your vehicle. To avoid or reduce the risk, the procedures must be followed carefully.



If you see this symbol, it means **Do not do this** or **Do not let this happen**.

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TOKYO, JAPAN

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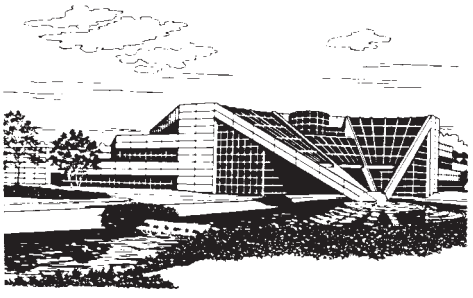
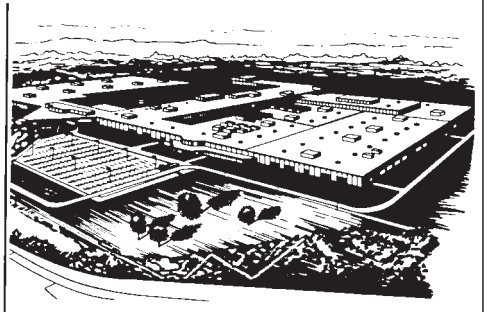
DEP
DEALER E-PROCESS

Welcome To The World Of NISSAN



NISSAN RESEARCH & DEVELOPMENT, INC.
in Farmington Hills, Michigan



NISSAN MOTOR MANUFACTURING CORPORATION
U.S.A. in Smyrna, Tennessee

AFW0001

Your new NISSAN is the result of our dedication to produce the finest in safe, reliable and economical transportation. Your vehicle is the product of a successful worldwide company that manufactures cars and trucks in over 17 countries and distributes them in 170 nations.

NISSAN vehicles are designed and manufactured by Nissan Motor Co., Ltd. which was founded in Tokyo, Japan in 1933, and NISSAN affiliates world wide, collectively growing to become the fifth largest automaker in the world. In addition to cars and trucks, NISSAN also makes textile machinery, fork-lift trucks, marine engines, boats and other products.

NISSAN has made a substantial and growing investment in North America, starting with the opening of Nissan Motor Corporation U.S.A. in 1960 and continuing with the production of some cars and trucks at one of the world's most modern manufacturing facilities, Nissan Motor Manufacturing Corporation U.S.A. in Smyrna, Tennessee, vehicle styling at Nissan Design International in San Diego, California, and engineering at Nissan Research and Development in Farmington Hills, Michigan.

Nissan Motor Corporation U.S.A. and its dealers indirectly employ about 60,000 Americans.

NISSAN is also a substantial contributor to the Canadian economy. Nissan Canada Inc., its suppliers and over 170 dealers employ approximately 4,500 people. These include company employees and the staffs of NISSAN dealers all across Canada. In addition, many Canadians work for companies that supply NISSAN and NISSAN dealers with materials and services ranging from operation of port facilities and transportation services to the supply of lubricants, parts and accessories.

NISSAN pioneered the use of electronics and computers in automobiles, and has led the industry in improving both performance and fuel efficiency through new engine designs and the use of synthetic materials to reduce vehicle weight. The company has also developed ways to build quality into its vehicles at each stage of the production process, both through extensive use of automation and — most importantly — through an awareness that **people** are the central element in quality control.

From the time the parts arrived from our suppliers until you took delivery of your new Nissan, dozens of checks were made to ensure that only the best job was being done in producing and delivering your vehicle. NISSAN also takes great care to ensure that when you take your NISSAN to your dealer for maintenance, the service technician will perform his work according to the quality standards that have been established by the factory.

Safety has also been built into your NISSAN. As you know, seat belts are an integral part of the safety systems that will help protect you and your passengers in the event of a sudden stop or an accident. We urge you to use the seat belts every time you drive the vehicle.

The NISSAN story of growth and achievement reflects our major goal: to provide you, our customer, with a vehicle that is built with quality and craftsmanship — a product that we can be proud to build and you can be proud to own.

DEALER E-PROCESS

NISSAN CUSTOMER CARE PROGRAM

NISSAN CARES ...

Both NISSAN and your NISSAN dealer are dedicated to serving all your automotive needs. Your satisfaction with your vehicle and your NISSAN dealer are our primary concerns. Your NISSAN dealer is always available to assist you with all your automobile sales and service needs.

However, if there is something that your NISSAN dealer cannot assist you with or you would like to provide NISSAN directly with comments or questions, please contact our (NISSAN's) Consumer Affairs Department using our toll-free number:

For U.S. mainland customers
1-800-NISSAN-1 (1-800-647-7261)
For Hawaii customers
(808) 836-0888 (Oahu Number)
For Canada customers
1-800-387-0122

The Consumer Affairs Department will ask for the following information:

— Your name, address, and telephone number
— Vehicle identification number (on dashboard)
— Date of purchase
— Current odometer reading
— Your NISSAN dealer's name
— Your comments or questions

OR

You can write to NISSAN with the information on the left at:

For U.S. mainland and Alaska customers
Nissan Motor Corporation U.S.A.
Consumer Affairs Department
P.O. Box 191
Gardena, California 90248-0191
For Hawaii customers
Nissan Motor Corporation in Hawaii
2880 Kilihau St.
Honolulu, Hawaii 96819
For Canada customers
Nissan Canada Inc.
5290 Orbitor Drive
Mississauga, Ontario L4W 4Z5

We appreciate your interest in NISSAN and thank you for buying a quality NISSAN vehicle.

DEP
DEALER E-PROCESS

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DEP DEALER E-PROCESS

1 Seats, restraints and supplemental air bag systems

Seats 1-2
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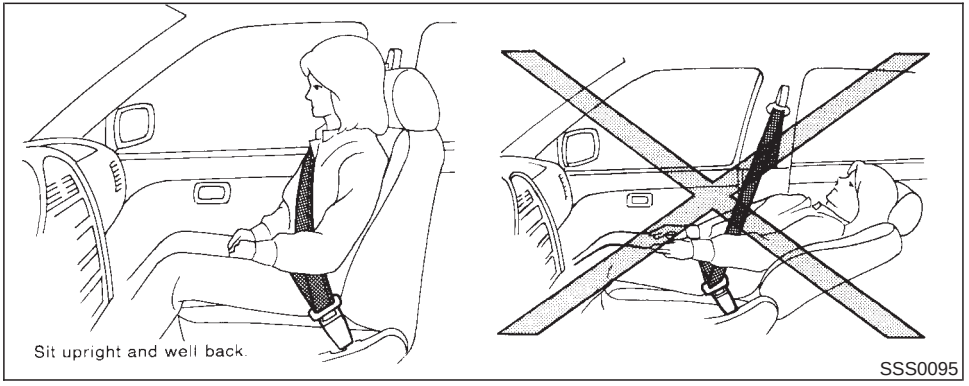
DEALER E-PROCESS



WARNING

- **Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. The shoulder belt will not be against your body. In an accident you could be thrown into it and receive neck or other serious injuries. You could also slide under the lap belt and receive serious internal injuries.**

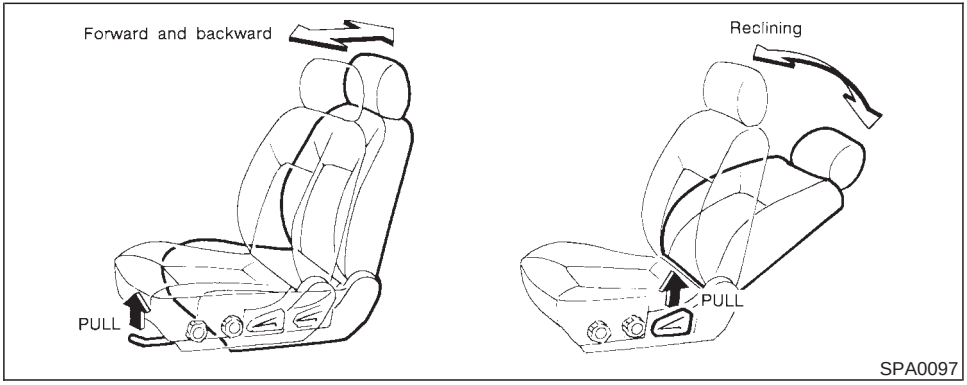
- **For most effective protection when the vehicle is in motion, the seat should be upright. Always sit well back in the seat and adjust the seat belt properly. See “Precautions on seat belt usage” later in this section.**

FRONT MANUAL SEAT ADJUSTMENT

WARNING

- **Do not adjust the driver’s seat while driving. The seat may move suddenly and could cause loss of control of the vehicle.**
- **After adjustment, gently rock in the seat to make sure it is securely locked.**

DEP DEALER E-PROCESS

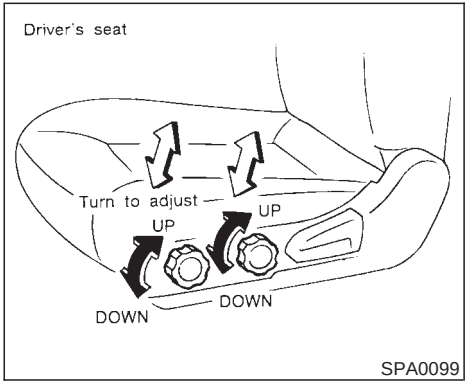


Forward and backward

Pull the lever up while you slide the seat forward or backward to the desired position. Release the lever to lock the seat in position.

Reclining

To recline the seatback, pull the lever up and lean back. To bring the seatback forward again, pull the lever and move your body forward. The seatback moves forward.



Seat lifter (Driver's seat)

Turn either dial to adjust the angle and height of the seat cushion to the desired position.

DEP
DEALER E-PROCESS

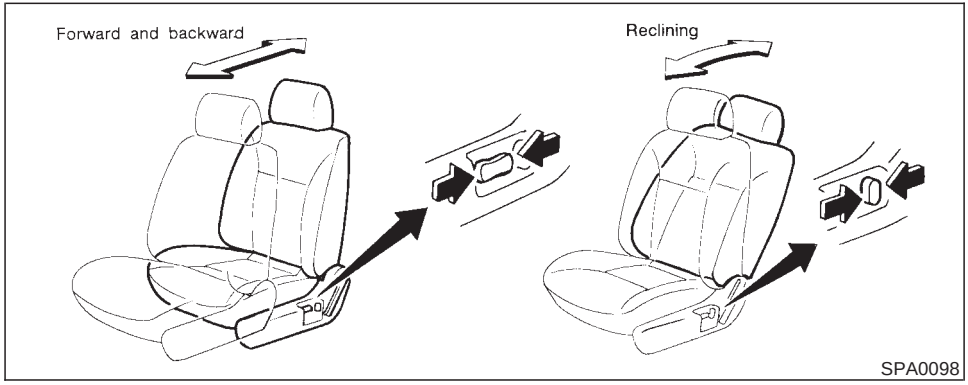
FRONT POWER SEAT ADJUSTMENT

⚠WARNING

- **Do not adjust the driver's seat while driving in order that full attention may be given to the driving operations.**
- **Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.**

Operating tips

- The motor has an auto-reset overload protection circuit. If the motor stops during operation, wait 30 seconds, then reactivate the switch.
- Do not operate the power support seat for a long period of time when the engine is off. This will discharge the battery.



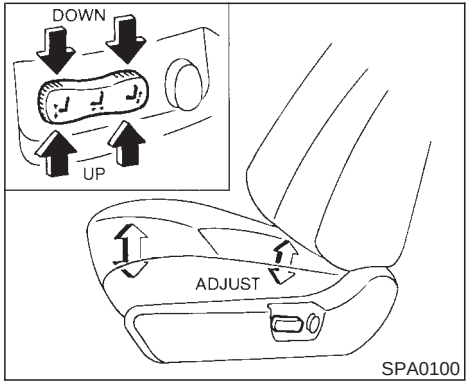
Forward and backward

Moving the switch forward or backward will slide the seat forward or backward to the desired position.

Reclining

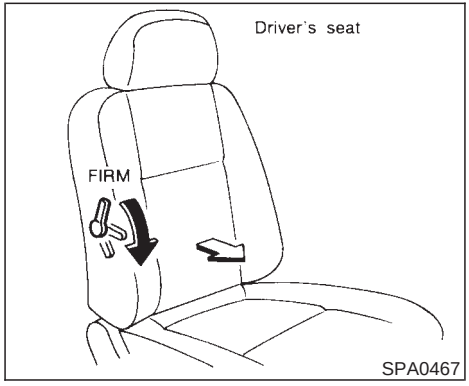
Move the recline switch backward until the desired angle is obtained. To bring the seatback forward again, move the switch forward and move your body forward. The seatback will move forward.

DEP DEALER E-PROCESS



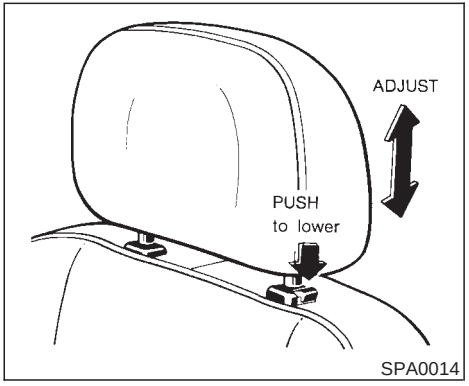
Seat lifter (Driver's seat)

Push the front or rear end of the switch up or down to adjust the angle and height of the seat cushion.



Lumbar support (Driver's seat)

The lumbar support feature provides lower back support to the driver. Move the lever up or down to adjust the seat lumbar area.



HEAD RESTRAINT ADJUSTMENT

To raise the head restraint, simply pull it up. To lower, push the lock knob and push the head restraint down.

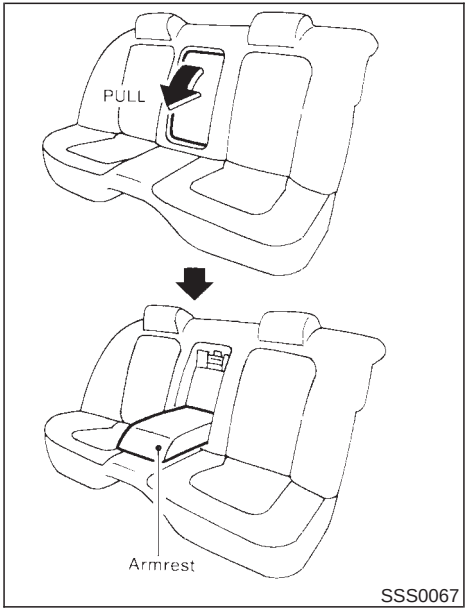
Adjust the head restraints so the top is level with the tops of your ears.

⚠WARNING

Head restraints should be adjusted properly as they may provide significant protection against injury in an accident. Do not remove them. Check the adjust-

DEP DEALER E-PROCESS

ment after someone else uses the seat.



ARMREST

WARNING

Properly secure all cargo to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.

Pull the armrest forward until it is horizontal.

DEP DEALER E-PROCESS

SUPPLEMENTAL RESTRAINT SYSTEM

PRECAUTIONS ON SUPPLEMENTAL RESTRAINT SYSTEM

This Supplemental Restraint System (SRS) section contains important information concerning the driver and passenger supplemental air bags and supplemental side air bags.

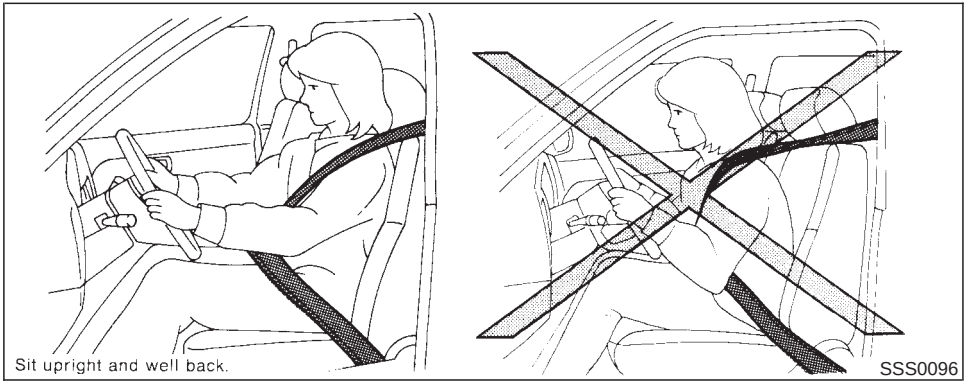
Supplemental air bag system: This system can help cushion the impact force to the face and chest of the driver and front passenger in certain frontal collisions.

Supplemental side air bag system (if so equipped): This system can help cushion the impact force to the chest area of the driver and front passenger in certain side impact collisions. The supplemental side air bag is designed to inflate on the side where the vehicle is impacted.

These supplemental restraint systems are designed to **supplement** the crash protection provided by the driver and front passenger seat belts and are **not a substitute** for them. Seat belts should always be correctly worn and the driver and front passenger seated a suitable distance away from the steering wheel, instrument panel and front door finishers. (See “Seat belts” later in this section for instructions and precautions on seat belt usage.)

After turning the ignition key to the ON position, the supplemental air bag warning light illuminates. The supplemental air bag warning light will turn off after about 7 seconds if the system is operational.

DEP DEALER E-PROCESS

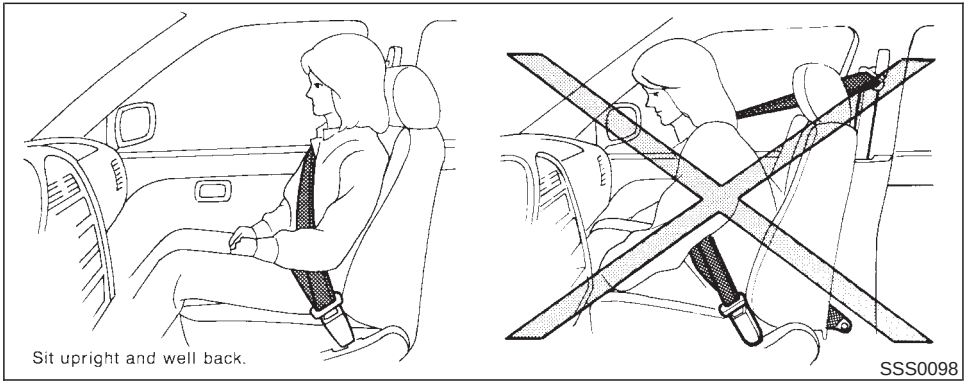


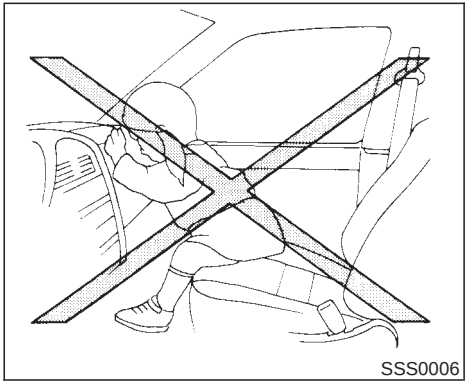
⚠WARNING

- **The supplemental air bags ordinarily will not inflate in the event of a side impact, rear impact, roll over, or lower severity frontal collision. Always wear your seat belts to help reduce the risk or severity of injury in various kinds of accidents.**

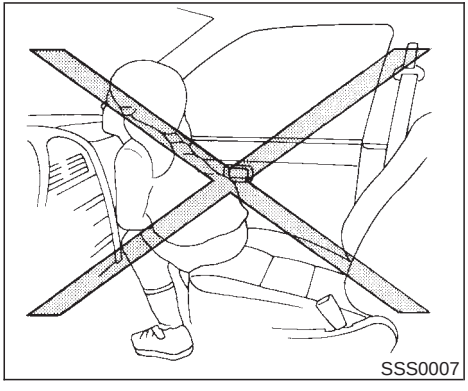
- **The seat belts and the supplemental air bags are most effective when you are sitting well back and upright in the seat. Supplemental air bags inflate with great force. If you are unrestrained, leaning forward, sitting sideways or out of position in any way, you are at greater risk of injury or death in a crash and may also receive serious or fatal injuries from the supplemental air bag if you are up against it when it inflates. Always sit back against the seatback and use the seat belts.**

DEP DEALER E-PROCESS





- **Keep hands on the outside of the steering wheel. Placing them inside the steering wheel rim could increase the risk that they are injured when the supplemental air bag inflates.**



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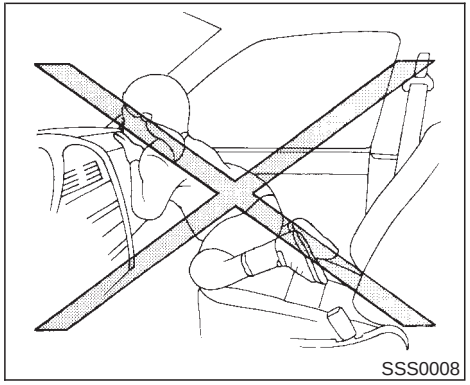
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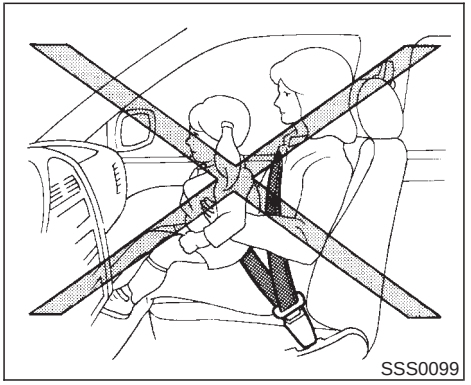
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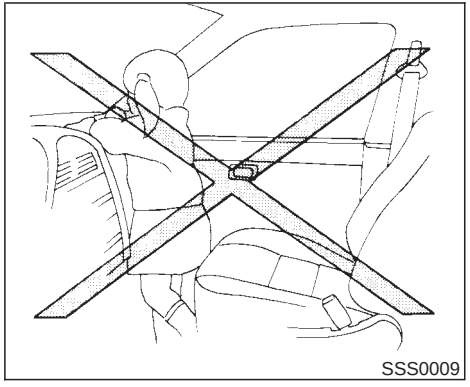
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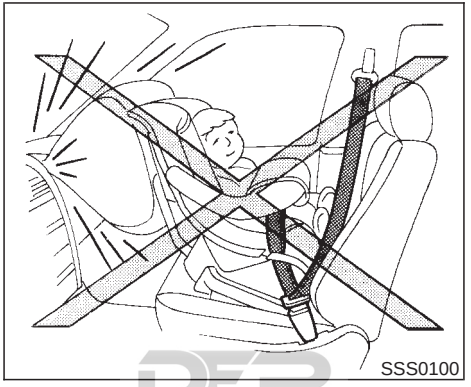
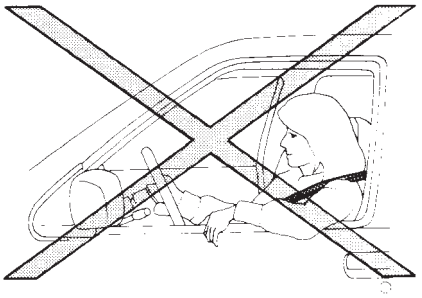

SSS0100

WARNING

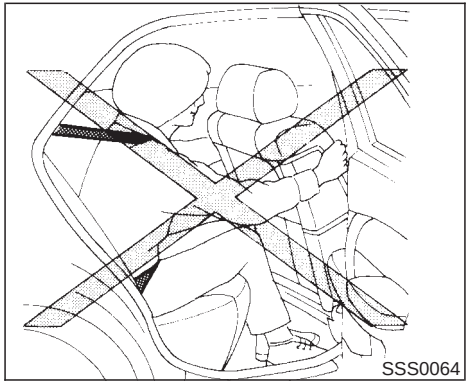
- **Never let children ride unrestrained or extend their hands or face out of the window. Do not attempt to hold them in your lap or arms. Some examples of dangerous riding positions are shown in the previous illustrations.**
- **Children may be severely injured or killed when the supplemental air bag or supplemental side air bag inflates if they are not properly restrained.**
- **Also never install a rear facing child restraint in the front seat. An inflating supplemental air bag could seriously injure or kill your child. For additional information, see “Child restraints” later in this section.**

DEP DEALER E-PROCESS



Do not lean against the door.

SSS0101



SSS0064

back of the front seat. If the supplemental side air bag inflates, the occupant may be seriously injured. Be especially careful with children, who should always be properly restrained.

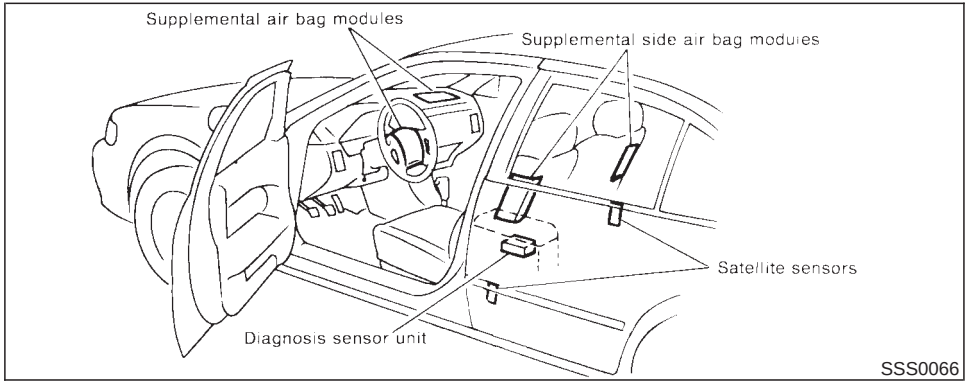
- **Do not use seat covers on the front seatbacks. They may interfere with supplemental side air bag inflation.**

⚠ WARNING

Supplemental side air bag equipped models:

- **The supplemental side air bag ordinarily will not inflate in the event of a frontal impact, rear impact or lower severity side collision. Always wear your seat belts to help reduce the risk or severity of injury in various kinds of accidents.**
- **The seat belts and the supplemental side air bag are most effective when you are sitting well back and upright in the seat. Supplemental side air bag inflates with great force. Do not allow anyone to place their hand, leg or face near the supplemental side air bag on the side of the seatback of the front seat. Do not allow anyone sitting in the front seat to extend their hand out of the window or lean against the door. When sitting in the rear seat, do not hold onto the seat-**

DEALER E-PROCESS



Supplemental air bag system

The driver supplemental air bag is located in the center of the steering wheel; the front passenger supplemental air bag is mounted in the dashboard above the glove box. The supplemental air bags are designed to inflate in higher severity frontal collisions, although they may inflate if the forces in another type of collision are similar to those of a higher severity frontal impact. They may not inflate in certain frontal collisions. Vehicle damage (or lack of it) is not always an indication of proper supplemental air bag operation.

When the supplemental air bag inflates, a fairly loud noise may be heard, followed by release of smoke. This smoke is not harmful and does not indicate a fire, but care should be taken not to inhale it, as it may cause irritation and choking. Those with a history of a breathing condition should get fresh air promptly.

Supplemental air bags along with the use of seat belts, helps to cushion the impact force on the face and chest of the front occupants. They can help save lives and reduce serious injuries. However, an inflating supplemental air bag may cause facial abrasions or other injuries. Supplemental air bags do not provide restraint to the lower body.

The seat belts should be correctly worn and the driver and passenger seated upright as far as practical away from the steering wheel or dash board. Since the supplemental air bags inflates quickly in order to help protect the front occupants, the force of the supplemental air bag inflating can increase the risk of injury if the occupant is too close to or is against the supplemental air bag module during inflation. The supplemental air bag will deflate quickly after the collision is over.

After turning the ignition key to the ON position, the supplemental air bag warning light illuminates. The supplemental air bag warning light will turn off after about 7 seconds if the system is operational.

⚠WARNING

- **Do not place any objects on the steering wheel pad or on the instrument panel. Also, do not place any objects between any occupant and the steering wheel or instrument panel. Such objects may become dangerous projectiles and cause injury if the supplemental air bag inflates.**
- **Right after inflation, several supple-**

mental air bag system components will be hot. Do not touch them; you may severely burn yourself.

- **No unauthorized changes should be made to any components or wiring of the supplemental air bag system. This is to prevent accidental inflation of the supplemental air bag or damage to the supplemental air bag system.**
- **Do not make unauthorized changes to your vehicle's electrical system, suspension system or front end structure. This could affect proper operation of the supplemental air bag system.**
- **Tampering with the supplemental air bag system may result in serious personal injury. Tampering includes changes to the steering wheel and the instrument panel assembly by placing material over the steering wheel pad, above the dashboard, or by installing additional trim material around the supplemental air bag system.**
- **Work around and on the supplemental air bag system should be done by an authorized NISSAN dealer. Installation of electrical equipment should also be done by an authorized NISSAN dealer. The SRS wiring harnesses* should not be modified or disconnected. Unauthorized electrical test equipment and probing devices should not be used on the supplemental air bag system.**

* **The SRS wiring harnesses are covered with yellow insulation either just before the harness connectors or over the complete harness for easy identification.**

When selling your vehicle, we request that you inform the buyer about the supplemental air bag system and guide the buyer to the appropriate sections in this Owner's Manual.

Supplemental side air bag system

The supplemental side air bags are located in the outside of the seatback of the front seats. The supplemental side air bag (on the driver or front passenger seat) is designed to inflate in higher severity side collisions, although it may inflate if the forces in another type of collision are similar to those of a higher severity side impact. It is designed to inflate on the side where the vehicle is impacted. It may not inflate in certain side collisions. Vehicle damage (or lack of it) is not always an indication of proper supplemental side air bag operation.

When the supplemental side air bag inflates, a fairly loud noise may be heard, followed by release of smoke. This smoke is not harmful and does not indicate a fire, but care should be taken not to inhale it, as it may cause irritation and choking. Those with a history of a breathing condition should get fresh air promptly.

Supplemental side air bags along with the use of seat belts, help to cushion the impact force on the chest of the front occupants. They can help save lives and reduce serious injuries. However, an inflating supplemental side air bag may cause abrasions or other injuries.

The seat belts should be correctly worn and the driver and passenger seated upright as far as practical away from the supplemental side air bag. Since the supplemental side air bag inflates quickly in order to help protect the front occupants, the force of the supplemental side air bag inflating can increase the risk of injury if the occupant is too close to or is against the supplemental side air bag module during inflation. The supplemental side air bag will deflate quickly after the collision is over.

DEALER E-PROCESS

After turning the ignition key to the ON position, the supplemental air bag warning light illuminates. The supplemental air bag warning light will turn off after about 7 seconds if the system is operational.

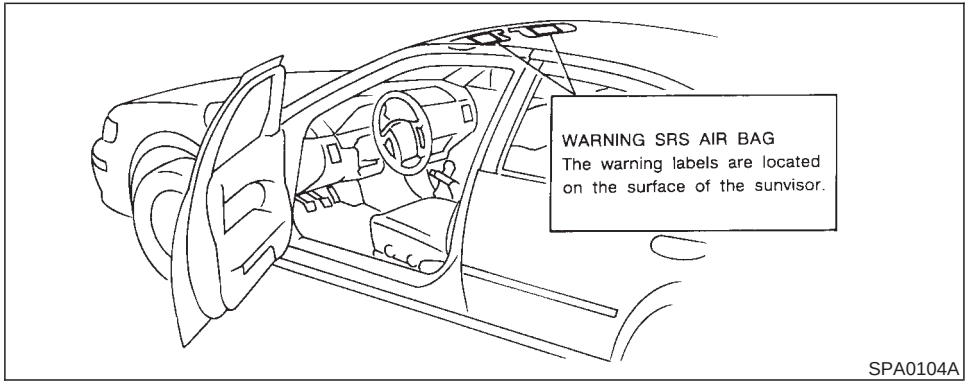
⚠ WARNING

- **Do not place any objects near the seatback of the front seats. Also, do not place any objects (an umbrella, bag, etc.) between the front door finisher and the front seat. Such objects may become dangerous projectiles and cause injury if the supplemental side air bag inflates.**
- **Right after inflation, several supplemental side air bag system components will be hot. Do not touch them; you may severely burn yourself.**
- **No unauthorized changes should be made to any components or wiring of the supplemental side air bag system. This is to prevent accidental inflation of the supplemental side air bag or damage to the supplemental side air bag system.**
- **Do not make unauthorized changes to your vehicle's electrical system, suspension system or side panel. This could affect proper operation of the supplemental side air bag system.**
- **Tampering with the supplemental side air bag system may result in serious personal injury. Tampering includes changes to the front seats assembly by placing material near the seatback of the front seat, or by installing additional trim material around the supplemental side air bag system.**
- **Work around and on the supplemental side air bag system should be done by an authorized NISSAN dealer. Installation of electrical equipment should also be done by an authorized NISSAN dealer. The SRS wiring harnesses* should not be modified or disconnected. Unauthorized electrical test equipment and probing devices should not be used on the supplemental side air bag system.**

*** The SRS wiring harnesses are covered with yellow insulation either just before the harness connectors or over the complete harness for easy identification.**

When selling your vehicle, we request that you inform the buyer about the supplemental side air bag system and guide the buyer to the appropriate sections in this Owner's Manual.

DEP DEALER E-PROCESS



SPA0104A

SUPPLEMENTAL AIR BAG WARNING LABELS

Warning labels about the supplemental air bag system are placed in the vehicle as shown in the illustration.

SPA0431

SUPPLEMENTAL AIR BAG WARNING LIGHT

The supplemental air bag warning light, displaying AIR BAG in the instrument panel, monitors the circuits of the supplemental air bag and supplemental side air bag systems. The circuits monitored by the supplemental air bag warning light are the diagnosis sensor unit, satellite sensors, supplemental air bag modules, supplemental side air bag modules and all related wiring.

After turning the ignition key to the ON, the supplemental air bag warning light illuminates. The supplemental air bag warning light will

DEP
DEALER E-PROCESS

turn off after about 7 seconds if the system is operational.

If any of the following conditions occur, the supplemental air bag and supplemental side air bag systems needs servicing:

- The supplemental air bag warning light does not come on and remain on for 7 seconds and then go off as described above.
- The supplemental air bag light flashes intermittently or remains on (after 7 seconds).
- The supplemental air bag light does not come on at all.

Under these conditions, the supplemental air bags or supplemental side air bags may not operate properly. It must be checked and repaired. Take your vehicle to the nearest authorized NISSAN dealer.

⚠ WARNING

If the supplemental air bag warning light is on, it could mean that the supplemental air bag or supplemental side air bag system will not operate in an accident.

Repair and replacement procedure

The supplemental air bags or supplemental side air bags are designed to inflate on a one-time-only basis. As a reminder, unless it is damaged, the supplemental air bag warning light will remain illuminated after inflation has occurred. Repair and replacement of these supplemental systems should be done only by authorized NISSAN dealers.

To ensure long-term functioning, these systems must be inspected 10 years after the date of manufacture noted on the certification label located on the driver side center pillar.

When maintenance work is required on the vehicle, the supplemental air bags, supplemental side air bags and related parts should be pointed out to the person conducting the maintenance. The ignition key should always be in the LOCK position when working under the hood or inside the vehicle.

⚠ WARNING

- **Once the supplemental air bag or supplemental side air bag has inflated, the supplemental air bag module or supplemental side air bag module will not function again and must be replaced. The supplemental air bag module or supplemental side air bag module should be replaced by an authorized NISSAN dealer. The supplemental air bag module or supplemental side air bag module cannot be repaired.**
- **The supplemental air bag and supplemental side air bag systems should be inspected by an authorized NISSAN dealer if there is any damage to the front end or side portion of the vehicle.**
- **If you need to dispose of these supplemental systems or scrap the vehicle, contact an authorized NISSAN dealer.**

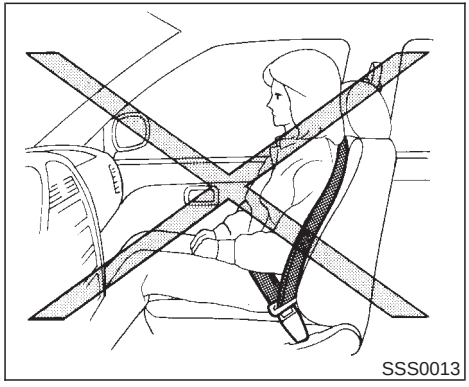
  Correct disposal procedures are set forth in the appropriate NISSAN Service Manual. Incorrect disposal procedures could cause personal injury.

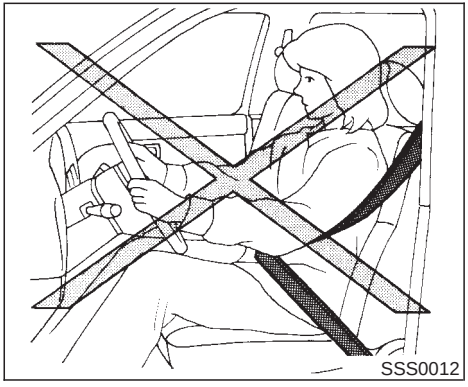
DEALER E-PROCESS

PRECAUTIONS ON SEAT BELT USAGE

Your chances of being injured or killed in an accident and/or the severity of injury may be greatly reduced if you are wearing your seat belt and it is properly adjusted. NISSAN strongly encourages you and all of your passengers to buckle up every time you drive, even if your seating position includes a supplemental air bag.

Most states, provinces or territories require that seat belts be worn at all times when a vehicle is being driven.

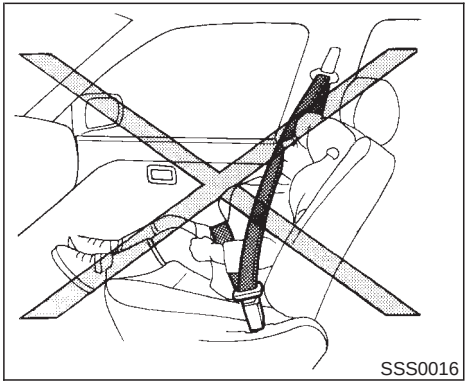

SSS0013


SSS0012

⚠WARNING

- **Every person who drives or rides in this vehicle should use a seat belt at all times. Children should be properly restrained and, if appropriate, in a child restraint.**
- **The belt should be properly adjusted to a snug fit. Failure to do so may reduce the effectiveness of the entire restraint system and increase the chance or severity of injury in an accident. Serious injury or death can occur if the seat belt is not worn properly.**
- **Always route the shoulder belt over your shoulder and across your chest. Never run the belt behind your backs under your arm or across your neck. The belt should be away from your face and neck, but not falling off your shoulder.**
- **Position the lap belt as low and snug**

DEP DEALER E-PROCESS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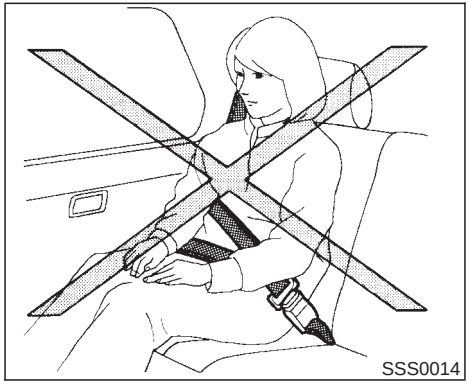

SSS0014

as possible around the hips, not the waist. A lap belt worn too high could increase the risk of internal injuries in an accident.

- Be sure the seat belt tongue is securely fastened to the proper buckle.
- Do not wear the belt inside out or twisted. Doing so may reduce its effectiveness.
- Do not allow more than one person to use the same belt.

- Never carry more people in the vehicle than there are seat belts.
- If the seat belt warning light glows continuously while the ignition is turned ON with all doors closed and all seat belts fastened, it may indicate a malfunction in the system. Have the system checked by your NISSAN dealer.
- All seat belt assemblies including retractors and attaching hardware should be inspected after any collision by your NISSAN dealer. NISSAN recommends that all seat belt assemblies in use during a collision be replaced unless the collision was minor and the belts show no damage and continue to operate properly. Seat belt assemblies not in use during a collision should also be inspected and replaced if either damage or improper operation is noted.

CHILD SAFETY

Children need adults to help protect them. They need to be properly restrained.

The proper restraint depends on the child's size. Generally, infants (up to about 1 year and less than 20 lb (9 kg) should be placed in rear facing child restraints. Front facing child restraints are available for children who outgrow rear facing child restraints.

⚠WARNING

Infants and children need special protection. The vehicle's seat belts may not fit them properly. The shoulder belt may come too close to the face or neck. The lap belt may not fit over their small hip

bones. In an accident, an improperly fitting seat belt could cause serious or fatal injury. Always use appropriate child restraints.

All US states and provinces of Canada require the use of approved child restraints for infants and small children. (See “Child restraints” later in this section.)

In addition, there are many types of child restraints available for larger children which should be used for maximum protection.

NISSAN recommends that all preteens and children be restrained in the rear seat if possible. According to accident statistics, children are safer when properly restrained in the rear seat than in the front seat.

This is especially important because your vehicle has a supplemental restraint system (air bag system) for the front passenger (see “Supplemental Restraint System” earlier in this section for precautions).

Infants and small children

NISSAN recommends that infants and small children be placed in child restraints that comply with Federal Motor Vehicle Safety Standards or Canadian Motor Vehicle Safety Standards. You should choose a child restraint that fits your vehicle and always follow the manufacturer’s instructions for installation and use.

Larger children

Children who are too large for child restraint systems should be seated and restrained by the seat belts which are provided.

If the child’s seating position has a shoulder belt that fits close to the face or neck, the use of a booster seat (commercially available) may help overcome this. The booster seat should raise the child so that the shoulder belt is properly positioned across the top, middle portion of the shoulder and the lap belt is low on the hips. The booster seat should fit the vehicle seat and have a label certifying that it complies with Federal Motor Vehicle Safety Standards or Canadian Motor Vehicle Safety Standards. Once the child has grown so the shoulder belt is no longer on or near the face and neck, use the shoulder belt without the booster seat.

⚠ WARNING

Never let a child stand or kneel on any seat and do not allow a child in the cargo areas while the vehicle is moving. The child could be seriously injured or killed in an accident.

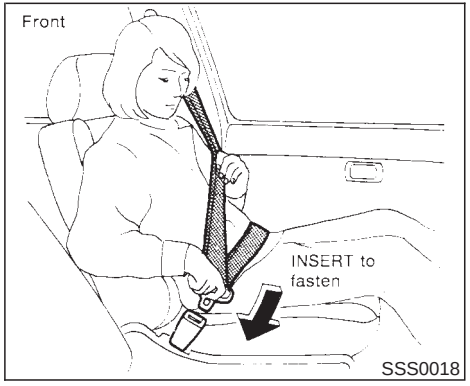
PREGNANT WOMEN

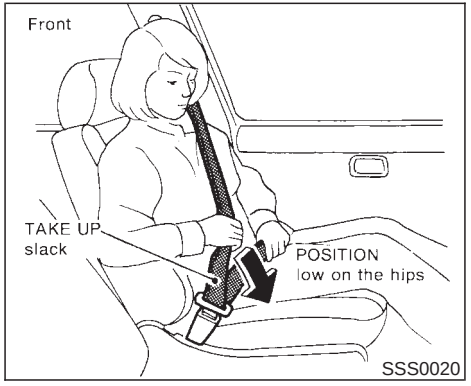
NISSAN recommends that pregnant women use seat belts. Contact your doctor for specific recommendations. The lap belt should be worn snug and positioned as low as possible around the hips, not the waist.

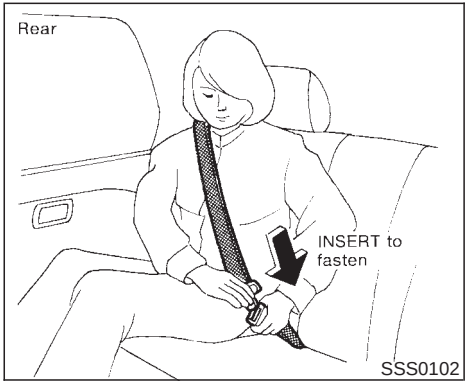
INJURED PERSONS

NISSAN recommends that injured persons use seat belts, depending on the injury. Check with your doctor for specific recommendations.

DEP DEALER E-PROCESS







THREE-POINT TYPE SEAT BELT WITH RETRACTOR

⚠WARNING

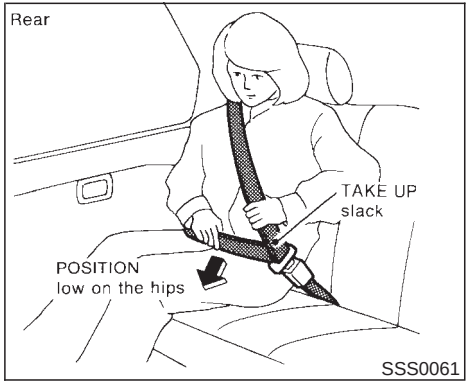
- **Every person who drives or rides in this vehicle should use a seat belt at all times.**
- **Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. The shoulder belt will not be against your body. In an accident you could be thrown into it and receive neck or other serious injuries. You could also slide under the lap belt and receive serious internal injuries.**
- **For most effective protection when the vehicle is in motion, the seat should be upright. Always sit well back in the seat and adjust the seat belt properly.**

Fastening the seat belts

1. Adjust the seat.
2. Slowly pull the seat belt out of the retractor and insert the tongue into the buckle until it snaps.

The retractor is designed to lock during a sudden stop or on impact. A slow pulling motion will permit the belt to move, and allow you some freedom of movement in the seat.

DEP DEALER E-PROCESS

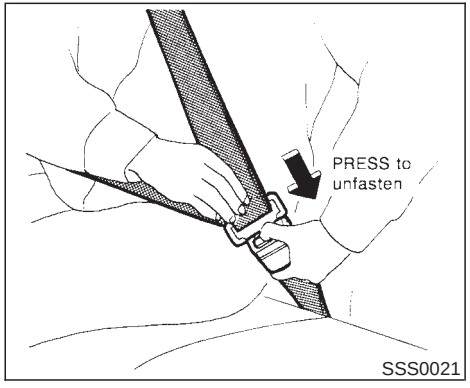


3. Position the lap belt portion **low and snug on the hips** as shown.
4. Pull the shoulder belt portion toward the retractor to take up extra slack.

The front passenger side seat belt and rear three-point seat belts have a cinching mechanism for child restraint installation. It is referred to as the automatic locking mode.

When the cinching mechanism is activated the seat belt cannot be withdrawn again until the seat belt tongue is detached from the buckle and fully retracted. For additional information, see “Child restraints” later in this section.

The automatic locking mode should be used only for child restraint installation. During normal seat belt use by a passenger, the locking mode should not be activated. If it is activated it may cause uncomfortable seat belt tension.



Unfastening the seat belts

To unfasten the belt, press the button on the buckle. The seat belt will automatically retract.

Checking seat belt operation

Your seat belt retractors are designed to lock belt movement using two separate methods:

- when the belt is pulled quickly from the retractor.
- when the vehicle slows down rapidly.

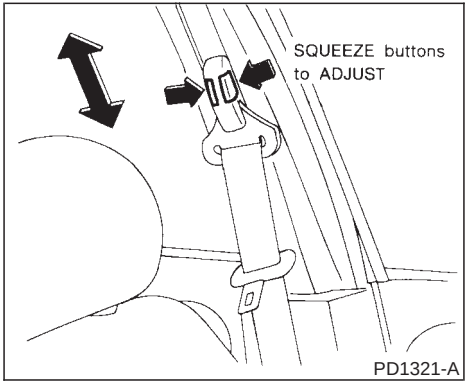
You can check their operation as follows:

- grasp the shoulder belt and pull quickly

DEP DEALER E-PROCESS

forward. The retractor should lock and restrict further belt movement.

If the retractor does not lock during this check or if you have any questions about belt operation, see your NISSAN dealer.



Shoulder belt height adjustment (For front seats)

The shoulder belt anchor height should be adjusted to the position best for you. (See “Precautions on seat belt usage” earlier in this section.) To adjust, squeeze the release buttons, and then move the shoulder belt anchor to the desired position, so that the belt passes over the center of the shoulder. The belt should be away from your face and neck, but not falling off of your shoulder. Release the adjustment buttons to lock the shoulder belt anchor into position.

⚠ WARNING

- **After adjustment, release the buttons and try to move the shoulder belt anchor up and down to make sure it is securely fixed in position.**
- **The shoulder belt anchor height should be adjusted to the position best for you. Failure to do so may reduce the effectiveness of the entire restraint system and increase the chance or severity of injury in an accident.**

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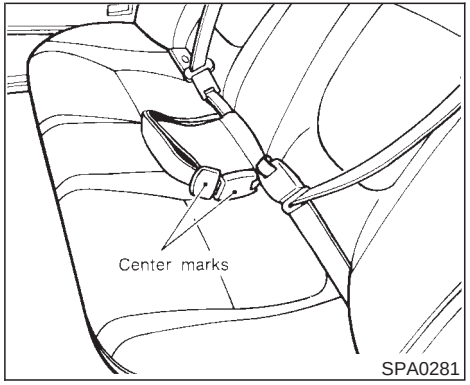
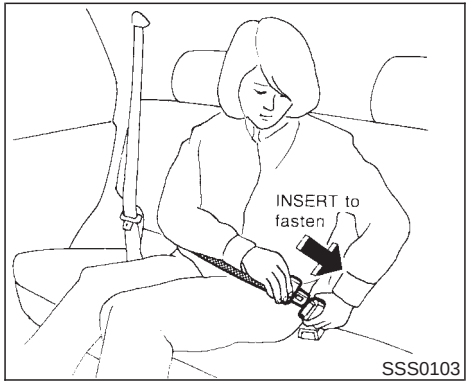


TWO-POINT TYPE SEAT BELT WITHOUT RETRACTOR (CENTER OF REAR SEAT)

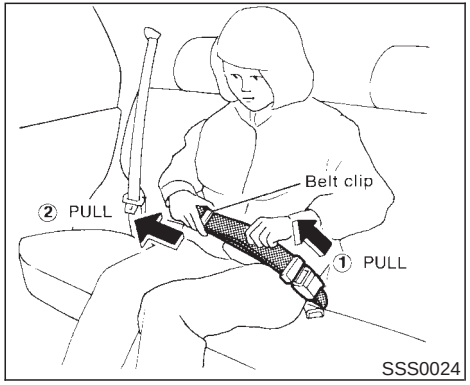
Selecting correct set of seat belts

The center seat belt buckle and tongue are identified by the CENTER mark. The center seat belt tongue can be fastened **only** into the center seat belt buckle.



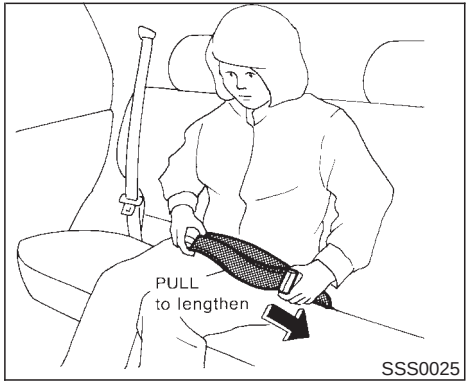
Fastening the seat belts

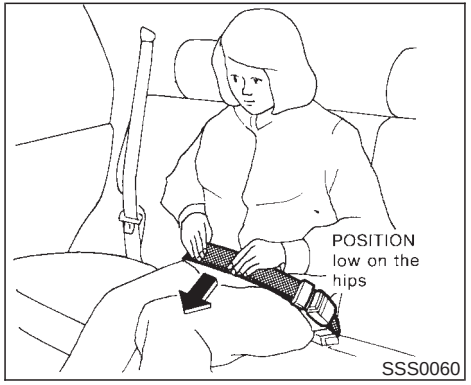
1. Insert the tongue into the buckle marked CENTER until it snaps.



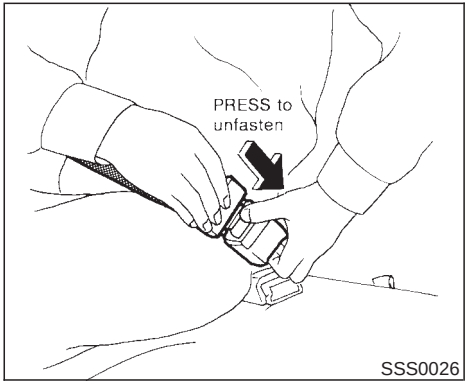
2. To lengthen, hold the tongue at a right angle to the belt and pull on the belt. To shorten, pull the end of the belt attached to the belt clip away from the tongue, and then pull the belt clip to take up the slack.

DEP DEALER E-PROCESS





3. Position the lap belt **low and snug on the hips** as illustrated.



Unfastening the seat belts

To unfasten the belt, press the button on the buckle.

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SEAT BELT EXTENDERS

If, because of body size or driving position, it is not possible to properly fit the lap-shoulder belt and fasten it, an extender is available which is compatible with the installed seat belts. The extender adds approximately 8 inches (200 mm) of length and may be used for either the driver or front passenger seating position. See your NISSAN dealer for assistance if the extender is required.

⚠ WARNING

- **Only NISSAN belt extenders, made by the same company which made the original equipment belts, should be used with NISSAN belts.**
- **Persons who can use the standard seat belt should not use an extender. Such unnecessary use could result in serious personal injury in the event of an accident.**

SEAT BELT MAINTENANCE

- **To clean the seat belt webbings,** apply a mild soap solution or any solution recommended for cleaning upholstery or carpets. Then brush the webbing, wipe it with a cloth and allow it to dry in the shade. Do not allow the seat belts to retract until they are completely dry.
- If dirt builds up in the shoulder belt guide of the seat belt anchors, the seat belts may retract slowly. Wipe the shoulder belt guide with a clean, dry cloth.
- **Periodically check to see that the seat belt and the metal components** such as buckles, tongues, retractors, flexible wires and anchors work properly. If loose parts, deterioration, cuts or other damage on the webbing is found, the entire belt assembly should be replaced.

PRECAUTIONS ON CHILD RESTRAINTS

⚠ WARNING

- **Infants and small children should always be placed in an appropriate child restraint while riding in the vehicle. Failure to use a child restraint can result in serious injury or death.**
- **Infants and small children should never be carried on your lap. It is not possible for even the strongest adult to resist the forces of a severe accident. The child could be crushed between the adult and parts of the vehicle. Also, do not put the same seat belt around both your child and yourself.**
- **Never install a rear facing child restraint in the front seat. An inflating supplemental air bag could seriously injure or kill your child. A rear facing child restraint must only be used in the rear seat.**
- **NISSAN recommends that the child restraint be installed in the rear seat.**

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According to accident statistics, children are safer when properly restrained in the rear seat than in the front seat.

- **An improperly installed child restraint could lead to serious injury or death in an accident.**

In general, child restraints are designed to be installed with a lap belt or the lap portion of a three-point type seat belt.

Child restraints for infants and children of various sizes are offered by several manufacturers. When selecting any child restraint, keep the following points in mind:

- choose only a restraint with a label certifying that it complies with Federal Motor Vehicle Safety Standard 213 or Canadian Motor Vehicle Safety Standard 213.
- check that child restraint in your vehicle to be sure it is compatible with the vehicle's seat and seat belt system. Choose a child restraint that meets the guidelines of the Society of Automotive Engineers recommended practice J1819 for child restraint installation.
- if the child restraint is compatible with your vehicle, place your child in the child restraint and check the various adjustments to be sure the child restraint is compatible with your child. Always follow all recommended procedures.

All US states and provinces of Canada require that infants and small children be restrained in approved child restraints at all times while the vehicle is being operated.

⚠WARNING

- **Improper use of a child restraint can result in increased injuries for both the infant or child and other occupants in the vehicle.**
- **Follow all of the child restraint manufacturer's instructions for installation and use. When purchasing a child restraint, be sure to select one which will fit your child and vehicle. It may not be possible to properly install some types of child restraints in your vehicle.**
- **If the child restraint is not anchored properly, the risk of a child being injured in a collision or a sudden stop greatly increases.**
- **Adjustable seatbacks should be positioned to fit the child restraint, but as upright as possible.**
- **After attaching the child restraint, test it before you place the child in it. Tilt it from side to side. Try to tug it forward and check to see if the belt holds the restraint in place. If the restraint is not secure, tighten the belt as necessary, or put the restraint in another seat and test it again.**
- **For a front facing child restraint, if the seat position where it is installed has a three-point type lap/shoulder belt, check to make sure the shoulder belt does not go in front of the child's face or neck. If it does, put the shoulder belt behind the child restraint. If you must install a front facing child restraint in the front seat, see later in "Child restraints" for installation on front passenger seat.**
- **When your child restraint is not in use, store it in the trunk or keep it**

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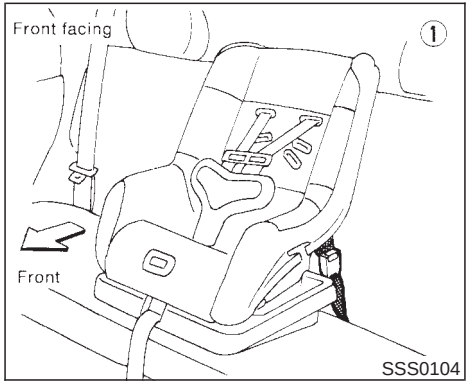
secured with a seat belt to prevent it from being thrown around in case of a sudden stop or accident.

CAUTION

Remember that a child restraint left in a closed vehicle can become very hot. Check the seating surface and buckles before placing your child in the child restraint.

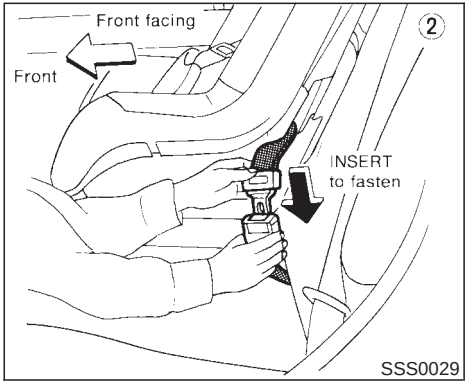


INSTALLATION ON REAR SEAT CENTER POSITION

Front facing

When you install a child restraint in a rear center seat, follow these steps:

1. Position the child restraint on the seat as illustrated. It can be placed in a front facing or rear facing direction, depending on the size of the child. Always follow the restraint manufacturer's instructions.



2. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage. Be sure to follow the child restraint manufacturer's instructions for belt routing.

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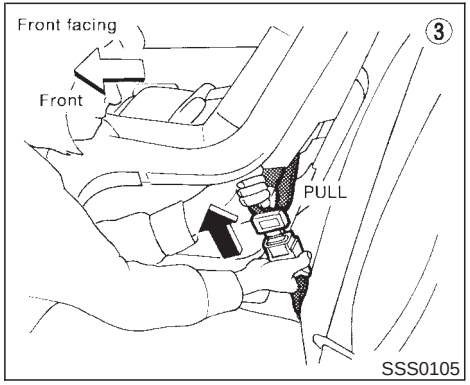
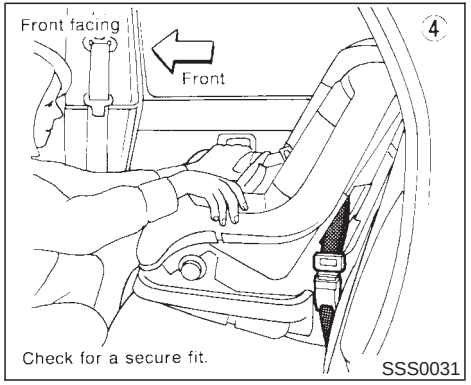
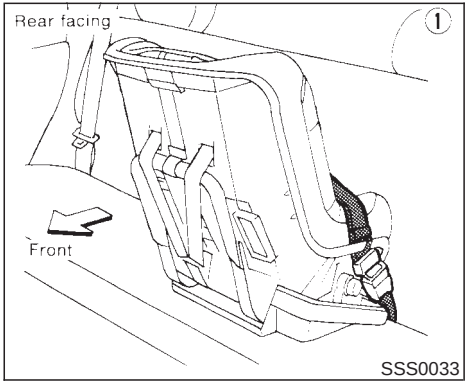
DEALER E-PROCESS



3. Remove all slack in the lap belt for a very tight fit by pulling forcefully on the lap belt adjustment.



4. Before placing the child in the child restraint, use force to tilt the child restraint from side to side, and tug it forward to make sure that it is securely held in place.
5. If it is not secure, try to tighten the belt again, or put the restraint in another seat.
6. Check to make sure the child restraint is properly secured prior to each use.

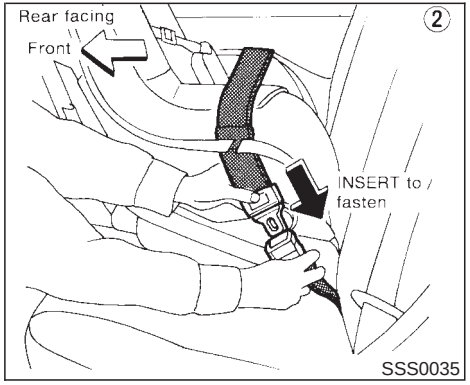


Rear facing

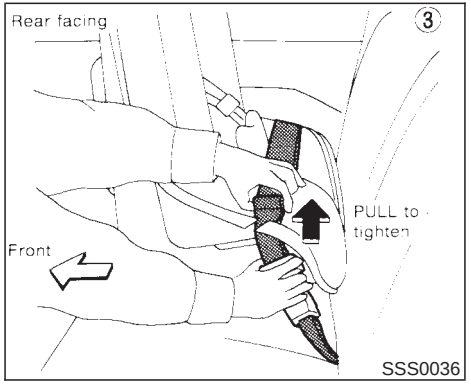
When you install a child restraint in a rear center seat, follow these steps:

1. Position the child restraint on the seat as illustrated. The direction of the child restraint depends on the type of the child restraint and the size of the child. Always follow the restraint manufacturer's instructions.

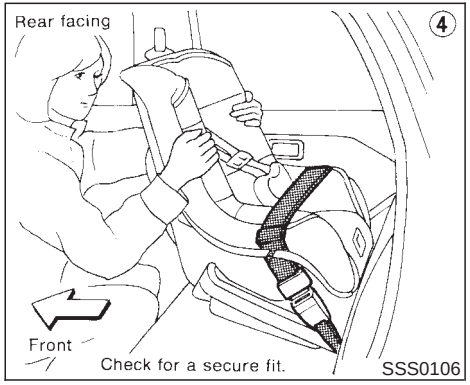
DEP DEALER E-PROCESS



2. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage. Be sure to follow the child restraint manufacturer's instructions for belt routing.



3. Remove all slack in the lap belt for a very tight fit by pulling forcefully on the lap belt adjustment.



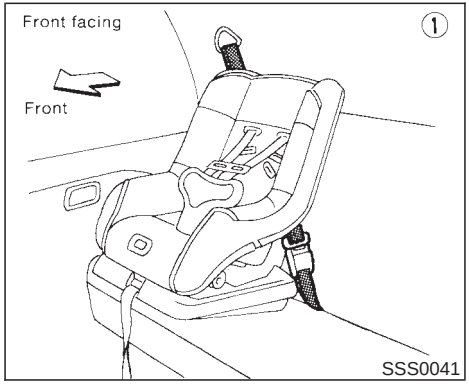
4. Before placing the child in the child restraint, use force to tilt the child restraint from side to side, and tug it forward to make sure that it is securely held in place.
5. If it is not secure, try to tighten the belt again, or put the restraint in another seat.
6. Check to make sure the child restraint is properly secured prior to each use.

DEP
DEALER E-PROCESS

INSTALLATION ON REAR SEAT OUTBOARD POSITIONS

⚠WARNING

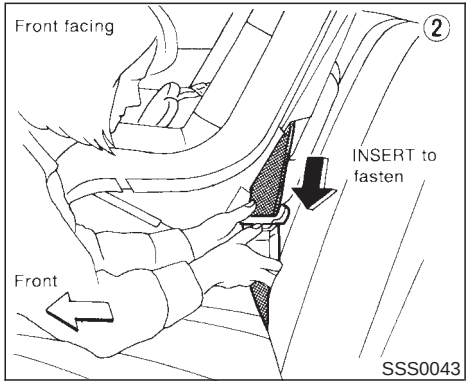
- **The three-point belt on your vehicle is equipped with a locking mode retractor which must be used when installing a child restraint.**
- **Failure to do so will result in the child restraint not being properly secured. It could tip over or otherwise be unsecured and cause injury to the child in a sudden stop or collision.**



Front facing

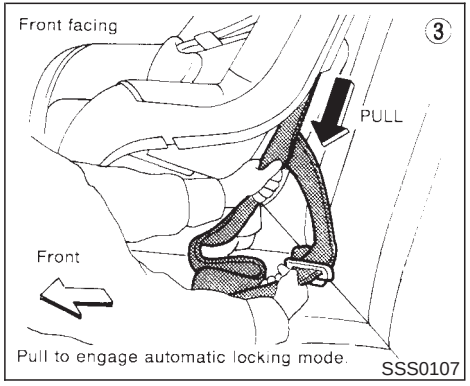
When you install a child restraint in a rear outboard seat, follow these steps:

1. Position the child restraint on the seat. It can be placed in a front facing direction, depending on the size of the child. Always follow the restraint manufacturer's instructions.

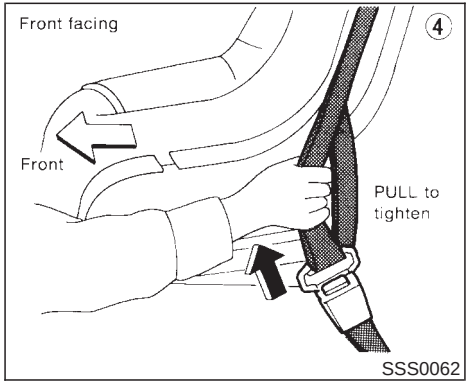


2. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage.
   Be sure to follow the child restraint manufacturer's instructions for belt routing.

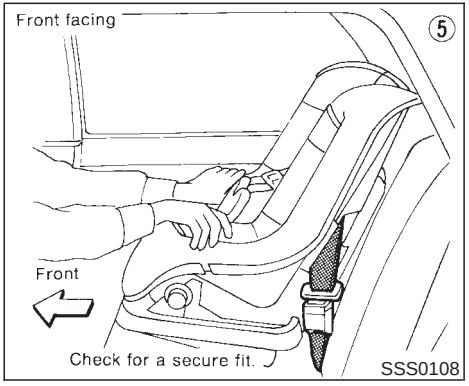
DEP DEALER E-PROCESS



3. Pull on the shoulder belt until all of the belt is fully extended. At this time, the belt retractor is in the automatic locking mode (child restraint mode). It reverts back to emergency locking mode when the belt is fully retracted.



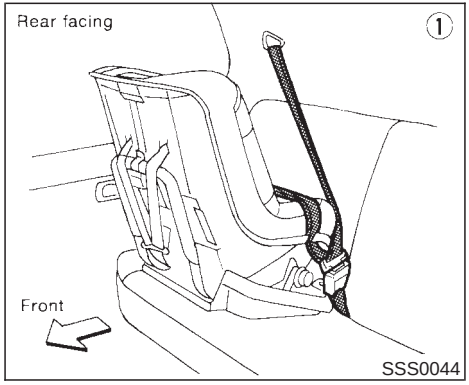
4. Allow the belt to retract. Pull up on the belt to remove any slack in the belt.



5. Before placing the child in the child restraint, use force to tilt the child restraint from side to side, and tug it forward to make sure that it is securely held in place.
6. Check that the retractor is in the automatic locking mode by trying to pull more belt out of the retractor. If you cannot pull any more belt webbing out of the retractor, the belt is in the automatic locking mode.
7. Check to make sure that the child restraint is properly secured prior to each use. If the belt is not locked, repeat steps 3 through 6.

DEP
DEALER E-PROCESS

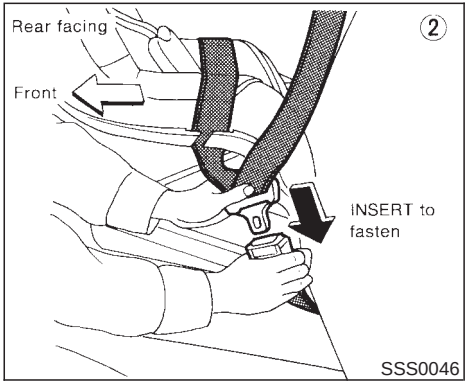
After the child restraint is removed and the seat belt is allowed to wind back into the retractor, the automatic locking mode (child restraint mode) is canceled; the seat belt only locks during a sudden stop or impact.



Rear facing

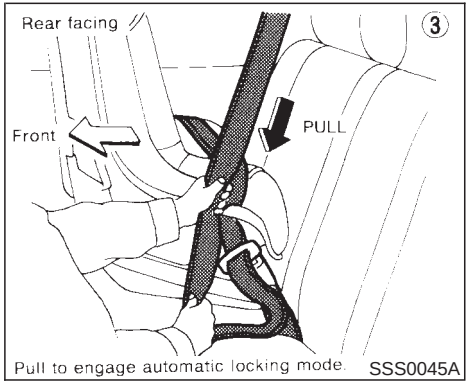
When you install a child restraint in a rear outboard seat, follow these steps:

1. Position the child restraint on the seat. The direction of the child restraint depends on the type of the child restraint and the size of the child. Always follow the restraint manufacturer's instructions.

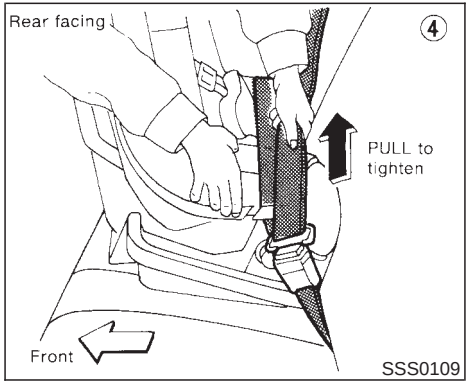


2. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage.
   Be sure to follow the child restraint manufacturer's instructions for belt routing.

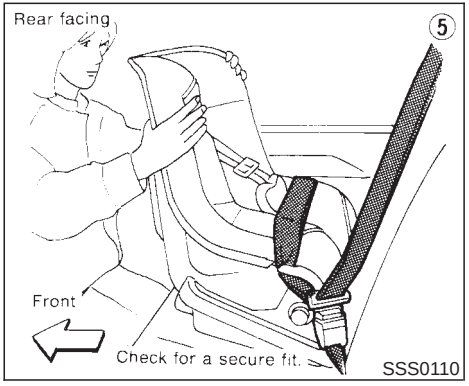
DEP DEALER E-PROCESS



3. Pull on the shoulder belt until all of the belt is fully extended. At this time, the belt retractor is in the automatic locking mode (child restraint mode). It reverts back to emergency locking mode when the belt is fully retracted.



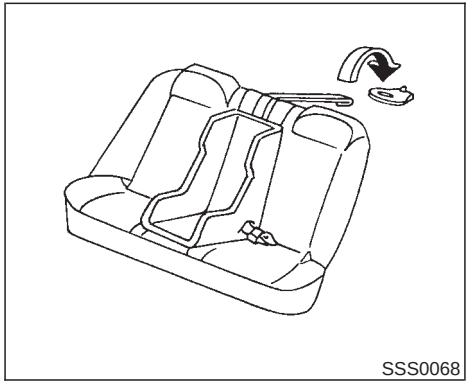
4. Allow the belt to retract. Pull up on the belt to remove any slack in the belt.



5. Before placing the child in the child restraint, use force to tilt the child restraint from side to side, and tug it forward to make sure that it is securely held in place.
6. Check that the retractor is in the automatic locking mode by trying to pull more belt out of the retractor. If you cannot pull any more belt webbing out of the retractor, the belt is in the automatic locking mode.
7. Check to make sure that the child restraint is properly secured prior to each use. If the belt is not locked, repeat steps 3 through 6.

DEP
DEALER E-PROCESS

After the child restraint is removed and the seat belt is allowed to wind back into the retractor, the automatic locking mode (child restraint mode) is canceled; the seat belt only locks during a sudden stop or impact.


SSS0068

TOP STRAP CHILD RESTRAINT

If your child restraint has a top strap, it must be secured to the provided anchor point. Anchor bracket hardware must be installed. The top strap anchor bracket is available through your NISSAN dealer.

Part No. 88894-89900

Secure the child restraint with the center lap belt or the lap portion of an outboard three-point belt and latch the top strap hook onto the appropriate anchor bracket. To install the anchor bracket, a metric bolt of the dimensions listed below must be used.

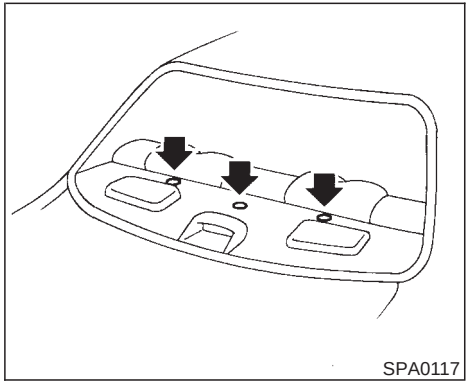
Bolt diameter: 8.0 mm
Bolt length: more than 1.18 in (30 mm)
Thread pitch: 1.25 mm

Secure the top strap to the attaching bolt which provides the straightest installation of the top strap.

⚠ WARNING

Child restraint anchor points are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts or harnesses.

DEP DEALER E-PROCESS


SPA0117

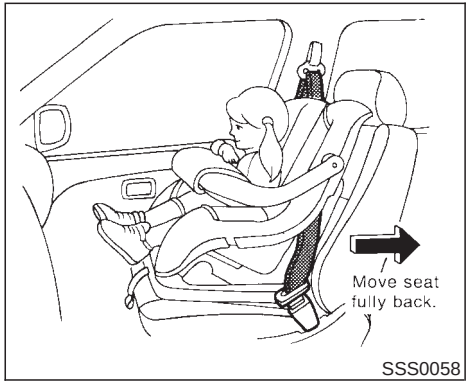
Anchor point locations

Anchor points are located under the rear parcel shelf finisher.

To use attaching hardware for child restraints with top straps, follow these instructions carefully:

1. Open the trunk and find the anchor point nuts on the under side of the rear parcel shelf. Thread a bolt (8.0 mm diameter, 1.25 mm pitch) up through the nut behind the seating position where the child restraint will be installed and use it to break through the rear parcel shelf support material. There are pre-cut circles at each anchor point location that should break away from the shelf support material when pressure is applied to them. Remove the bolt after you feel the pre-cut circle separate from the shelf support material.
2. Cut a small slit through the parcel shelf fabric at the anchor point location. Reach through the fabric with a tool such as a pair of needle-nose pliers and remove the pre-cut circle in the parcel shelf support material.
3. Install the bolt through the top strap hook and into the anchor point nut.
4. Be sure to follow all of the instructions that accompany the top strap attaching hardware.

Your NISSAN dealer can assist you with the installation of your child restraint.



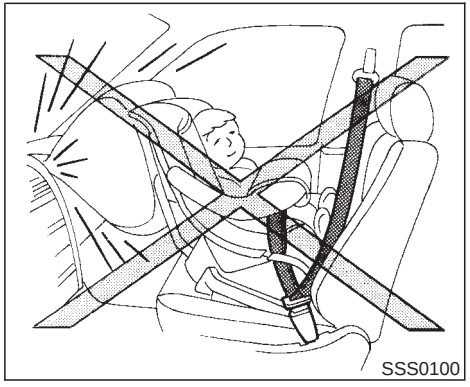
SSS0058

INSTALLATION ON FRONT PASSENGER SEAT

⚠ WARNING

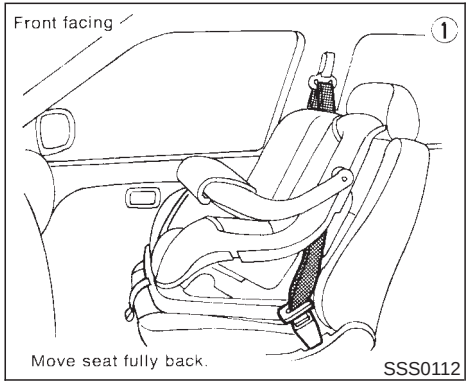
- **Never install a rear facing child restraint in the front passenger seat. Supplemental air bags inflate with great force. A rear facing child restraint could be struck by the supplemental air bag in a crash and could seriously injure or kill your child.**

DEP
DEALER E-PROCESS


SSS0100

- **NISSAN recommends that child restraints be installed in the rear seat. However, if you must install a front facing child restraint in the front passenger seat, move the passenger seat to the rearmost position.**
- **A child restraint with a top strap should not be used in the front passenger seat.**
- **The three-point belt in your vehicle is equipped with a locking mode retractor which must be used when installing a child restraint.**

- **Failure to use the retractor's locking mode may result in the child restraint not being properly secured. The child restraint could tip over or otherwise be unsecured and cause injury to the child in a sudden stop or collision.**



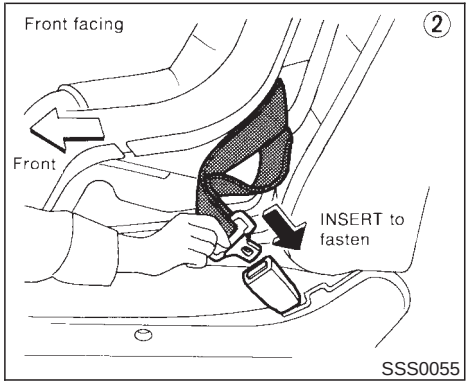
SSS0112

Front facing

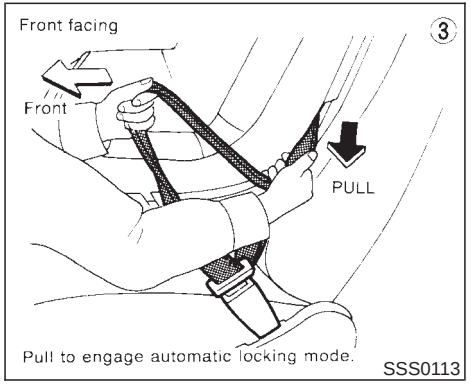
If you must install a child restraint in the front seat, follow these steps:

1. Position the child restraint on the front passenger seat. **It should be placed in a front facing direction only.** Move the seat to the rearmost position. Always follow the child restraint manufacturer's instructions. **Child restraints for infants must be used in the rear facing direction and therefore must not be used in the front seat.**

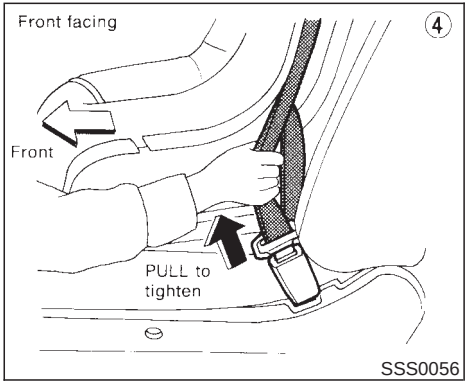
DEP DEALER E-PROCESS



2. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage. Be sure to follow the child restraint manufacturer's instructions for belt routing.

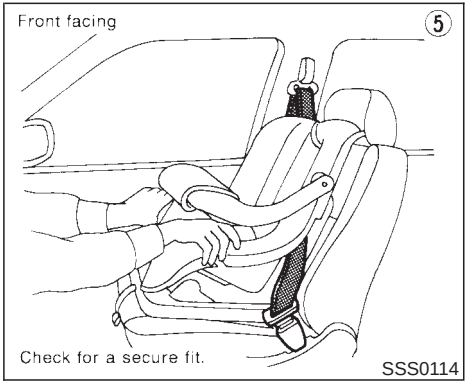


3. Pull on the shoulder belt until all of the belt is fully extended. At this time, the belt retractor is in the automatic locking mode (child restraint mode). It reverts back to emergency locking mode when the belt is fully retracted.



4. Allow the belt to retract. Pull up on the belt to remove any slack in the belt.

DEP
DEALER E-PROCESS



5. Before placing the child in the child restraint, use force to tilt the child restraint from side to side, and tug it forward to make sure that it is securely held in place.
6. Check that the retractor is in the automatic locking mode by trying to pull more belt out of the retractor. If you cannot pull any more belt webbing out of the retractor, the belt is in the automatic locking mode.
7. Check to make sure that the child restraint is properly secured prior to each use. If the lap belt is not locked, repeat steps 3 through 6.

After the child restraint is removed and the seat belt is allowed to wind back into the retractor, the automatic locking mode (child restraint mode) is canceled; the seat belt only locks during a sudden stop or impact.

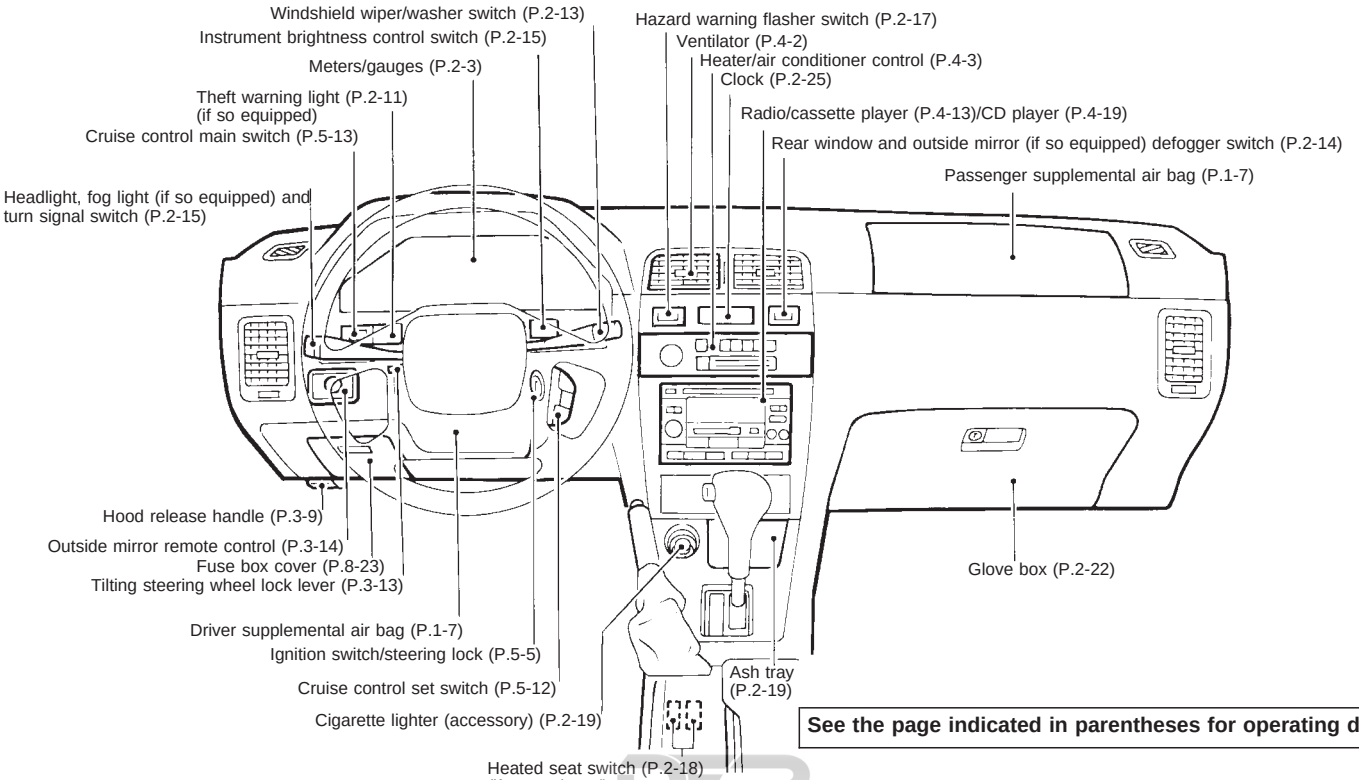
DEP DEALER E-PROCESS

2 Instruments and controls

Instrument panel 2-2
Meters and gauges 2-3
Warning/indicator lights and buzzers 2-7
Security system (if so equipped) 2-11
Windshield wiper and washer switch 2-13
Rear window and outside mirror (if so equipped) defogger switch 2-14
Headlight and turn signal switch 2-15
Front fog light switch (if so equipped) 2-16
Hazard warning flasher switch 2-17
Horn 2-17
Heated seats (if so equipped) 2-18
Cigarette lighter and ashtray 2-19
Storage 2-19
Windows 2-22
Sunroof (if so equipped) 2-24
Clock 2-25
Interior light 2-25
Personal light 2-26
Vanity mirror light (if so equipped) 2-26
Trunk light 2-27
Integrated HomeLink® transmitter (if so equipped) 2-27

DEP DEALER E-PROCESS

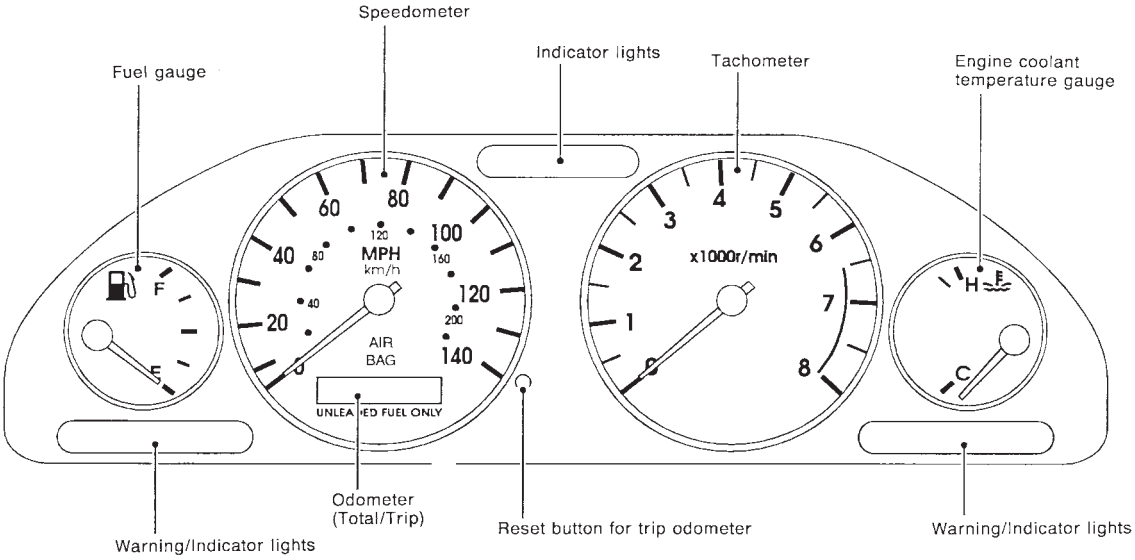
INSTRUMENT PANEL


Windshield wiper/washer switch (P.2-13)
Instrument brightness control switch (P.2-15)
Meters/gauges (P.2-3)
Theft warning light (P.2-11) (if so equipped)
Cruise control main switch (P.5-13)
Headlight, fog light (if so equipped) and turn signal switch (P.2-15)
Hazard warning flasher switch (P.2-17)
Ventilator (P.4-2)
Heater/air conditioner control (P.4-3)
Clock (P.2-25)
Radio/cassette player (P.4-13)/CD player (P.4-19)
Rear window and outside mirror (if so equipped) defogger switch (P.2-14)
Passenger supplemental air bag (P.1-7)
Hood release handle (P.3-9)
Outside mirror remote control (P.3-14)
Fuse box cover (P.8-23)
Tilting steering wheel lock lever (P.3-13)
Driver supplemental air bag (P.1-7)
Ignition switch/steering lock (P.5-5)
Cruise control set switch (P.5-12)
Cigarette lighter (accessory) (P.2-19)
Heated seat switch (P.2-18) (if so equipped)
Glove box (P.2-22)
Ash tray (P.2-19)

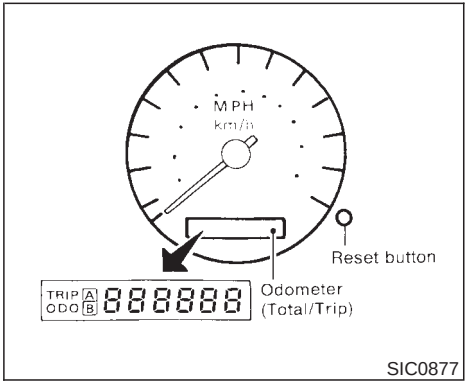
See the page indicated in parentheses for operating details.

SIC0875

DEP DEALER E-PROCESS


Speedometer
Indicator lights
Tachometer
Fuel gauge
Engine coolant temperature gauge
MPH
km/h
AIR BAG
x1000r/min
UNLEADED FUEL ONLY
Odometer (Total/Trip)
Reset button for trip odometer
Warning/Indicator lights
Warning/Indicator lights

SIC0876



SPEEDOMETER AND ODOMETER

Speedometer

The speedometer indicates vehicle speed in miles per hour.

Odometer

The odometer records the total distance the vehicle has been driven.

Twin trip odometer

The twin trip odometer records the distance of individual trips.

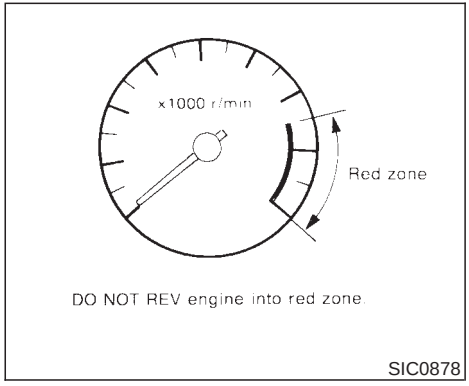
Changing the display:

Pushing the reset button changes the display as follows:

ODO → TRIP A → TRIP B → ODO

Resetting the trip odometer:

Pushing the reset button for more than 1 second resets the trip odometer to zero.



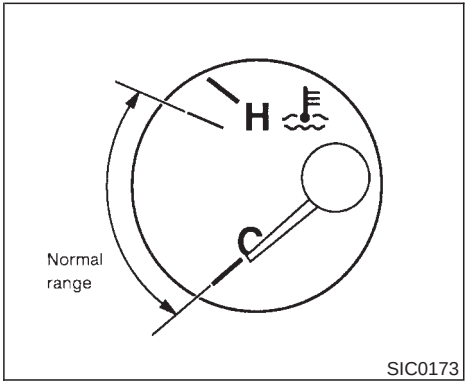
TACHOMETER

The tachometer indicates engine speed in revolutions per minute (r/min).

⚠ CAUTION

When engine speed approaches the red zone, shift to a higher gear. Operating the engine in the red zone may cause serious engine damage.

DEP
DEALER E-PROCESS



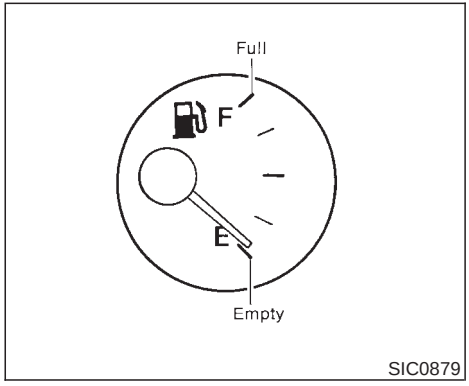
ENGINE COOLANT TEMPERATURE GAUGE

The gauge indicates the engine coolant temperature.

The engine coolant temperature will vary with the outside air temperature and driving conditions.

CAUTION

If the gauge indicates engine coolant temperature over the normal range, stop the vehicle as soon as safely possible. If the engine is overheated, continued operation of the vehicle may seriously damage the engine. See "If your vehicle overheats" in the "6. In case of emergency" section.



FUEL GAUGE

The gauge indicates the approximate fuel level in the tank.

The gauge may move slightly during braking, turning, acceleration, or going up or down hill.

The gauge needle is designed to remain in approximately the same position, even when the ignition key is turned OFF.

Refill the fuel tank before the gauge registers Empty.

DEP
DEALER E-PROCESS

The low fuel warning light comes on when the fuel tank is getting low. Refuel as soon as it is convenient, preferably before the gauge reaches E. There will be a small reserve of fuel in the tank when the fuel gauge needle reaches E.

DEP
DEALER E-PROCESS

WARNING/INDICATOR LIGHTS AND BUZZERS

	Engine oil pressure warning light		Low washer fluid warning light (if so equipped)		Turn signal/hazard indicator light
	Charge warning light	or BRAKE	Brake warning light		High beam indicator light (Blue)
	Door open warning light	ABS or	Anti-lock brake warning light (if so equipped)	CRUISE	Cruise indicator light
	Seat belt warning light		Low fuel warning light	SERVICE ENGINE SOON	Malfunction indicator light (MIL)
AIR BAG	Supplemental air bag warning light	O/D OFF	Overdrive off indicator light		

CHECKING BULBS

Apply the parking brake and turn the ignition key to ON without starting the engine. The following lights will come on:

, or BRAKE , , SERVICE ENGINE SOON

The following lights come on briefly and then go off:

ABS or , AIR BAG , O/D OFF

If any light fails to come on, it may indicate a burned-out bulb or an open circuit in the electrical system. Have the system repaired promptly.

WARNING LIGHTS

Engine oil pressure warning light

This light warns of low engine oil pressure. If the light flickers or comes on during normal driving, pull off the road in a safe area, stop the engine **immediately** and call a NISSAN dealer or other authorized repair shop.

The oil pressure warning light is not designed to indicate a low oil level. Use the dipstick to check the oil level. See “Engine oil” in the “8. Do-it-yourself” section.

⚠CAUTION

Running the engine with the oil pressure warning light on could cause serious damage to the engine almost immediately. Turn off the engine as soon as it is safe to do so.

Charge warning light

If the light comes on while the engine is running, it may indicate that there is something wrong with the charging system. Turn the engine off and check the alternator belt. If the

DEP DEALER E-PROCESS

belt is loose, broken, missing or if the light remains on, see your NISSAN dealer immediately.

⚠CAUTION

Do not continue driving if the belt is loose, broken or missing.

Door open warning light

This light comes on when any of the doors are not closed securely while the ignition key is ON.

Seat belt warning light and buzzer

The light and buzzer remind you to fasten seat belts. The light illuminates whenever the ignition key is turned to ON, and will remain illuminated until the driver's seat belt is fastened. At the same time, the buzzer will sound for about 6 seconds unless the driver's seat belt is securely fastened.

See "Seat belts" in the "1. Seats, restraints and supplemental air bag systems" section for precautions on seat belt usage.

AIR BAG

Supplemental air bag warning light

After turning the ignition key to the ON position, the supplemental air bag light will illuminate. The supplemental air bag warning light will turn off after about 7 seconds if the system is operational.

If any of the following conditions occur, the supplemental air bag needs servicing and your vehicle must be taken to your nearest authorized NISSAN dealer.

- The supplemental air bag warning light does not come on and remain on for 7 seconds and then go off as described above.
- The supplemental air bag light flashes intermittently or remains on (after 7 seconds).
- The supplemental air bag light does not come on at all.

Unless checked and repaired, the Supplemental Restraint System may not function properly. For additional details on the Supplemental Air Bag System, see Section 2.

⚠WARNING

If the supplemental air bag warning light is on, it could mean that the supplemental air bag or supplemental side air bag system (if so equipped) will not operate in an accident.

Low washer fluid warning light (if so equipped)

This light comes on when the washer tank fluid is at a low level. Add washer fluid as necessary. See "Window washer fluid" in the "8. Do-it-yourself" section.

or BRAKE Brake warning light

This light functions for both the parking brake and the foot brake systems.

Parking brake indicator:

When the ignition key is in the ON position, the light comes on when the parking brake is applied.

Low brake fluid warning:

The light warns of a low brake fluid level. If the light comes on while the engine is running with

DEP DEALER E-PROCESS

the parking brake not applied, stop the vehicle and perform the following:

1. Check the brake fluid level. Add brake fluid as necessary. See “Brake and clutch fluid” in the “Do-it-yourself” section.

⚠WARNING

- **Your brake system may not be working properly if the warning light is on. Driving could be dangerous. If you judge it to be safe, drive carefully to the nearest service station for repairs. Otherwise, have your vehicle towed.**
- **Pressing the brake pedal with the engine stopped and/or low brake fluid level may increase your stopping distance and braking will require greater pedal effort as well as greater pedal travel.**
- **If the brake fluid level is below the MIN mark on the brake fluid reservoir, do not drive until the brake system has been checked at a NISSAN dealer.**

2. If the brake fluid level is correct, have the warning system checked by a NISSAN dealer.

ABS or (ABS) Anti-lock brake warning light (if so equipped)

After turning the ignition key to the ON position, the light will illuminate. The light will turn off after about 2 seconds if the system is operational.

If the light comes on while the engine is running, it may indicate there is something wrong with the anti-lock portion of the brake system. Have the system checked by your NISSAN dealer. However if the light illuminates while starting the engine, it does not indicate a system malfunction.

If an abnormality occurs in the system, the anti-lock function will cease but the ordinary brakes will continue to operate normally.

If the light comes on while you are driving, contact your NISSAN dealer for repair.

Low fuel warning light

This light comes on when the fuel in the tank is getting low. Refuel as soon as it is convenient, preferably before the fuel gauge reaches E.

There will be a small reserve of fuel remaining in the tank when the fuel gauge needle reaches E.

INDICATOR LIGHTS

O/D OFF Overdrive off indicator light

This light comes on during driving when the overdrive switch is pressed to prevent overdrive operation.

The O/D OFF indicator light comes on for 2 seconds each time the ignition key is turned ON. This shows the light is functioning properly.

If the O/D OFF indicator light blinks for approximately 8 seconds after coming on for 2 seconds, have your NISSAN dealer check the transmission and repair it if necessary.

The automatic transmission is equipped with an electronic fail-safe mode. This system allows the vehicle to be driven even in the event of damage to the electrical circuits. If this occurs, the gears automatically engage and lock into third gear.

See the “Driving the vehicle” in the “5. Starting and driving” section for fail-safe before visiting your NISSAN dealer.

DEP DEALER E-PROCESS

Turn signal/hazard indicator lights

The light flashes when the turn signal switch lever or hazard switch is turned on.

High beam indicator light (Blue)

This light comes on when the headlight high beam is on and goes out when the low beam is selected.

CRUISE Cruise indicator light

The light comes on while the vehicle speed is controlled by the cruise control system. If the light flickers while the engine is running, it may indicate there is something wrong with the cruise control system. Have the system checked by your NISSAN dealer.

SERVICE ENGINE SOON Malfunction indicator light (MIL)

If the malfunction indicator light comes on steady or blinks while the engine is running, it may indicate a potential emission control problem.

The malfunction indicator light will come on in one of two ways:

- Malfunction indicator light on steady — An emission control system malfunction has been detected. Have the vehicle inspected by an authorized NISSAN dealer. You do not need to have your vehicle towed to the dealer.
- Malfunction indicator light blinking — An engine misfire has been detected which may damage the emission control system. To reduce or avoid emission control system damage:

  a) Do not drive at speeds above 45 MPH (72 km/h).
  b) Avoid hard acceleration or deceleration.
  c) Avoid steep uphill grades.
  d) If possible, reduce the amount of cargo being hauled or towed.

  The malfunction indicator light may stop blinking and come on steady.

  Have the vehicle inspected by an authorized NISSAN dealer. You do not need to have your vehicle towed to the dealer.

⚠ CAUTION

Continued vehicle operation without having the emission control system checked and repaired as necessary could lead to poor driveability, reduced fuel economy, and possible damage to the emission control system.

Some conditions may cause the malfunction indicator light to come on steady or blink. Examples are as follows:

- vehicle ran out of fuel, which caused the engine to misfire.
- fuel filler cap was left off or improperly installed, allowing fuel to evaporate into the atmosphere.

If you suspect that you experienced one or both of the above conditions, drive the vehicle to an authorized NISSAN dealer and have the vehicle inspected. Avoid any unnecessary diagnosis during the service by informing the dealer of the conditions listed above that may have occurred.

DEP DEALER E-PROCESS

BUZZERS

Key reminder buzzer

The buzzer will sound if the driver side door is opened while the key is left in the ignition switch (ignition switch is turned off). Remove the key and take it with you when leaving the vehicle.

Light reminder buzzer

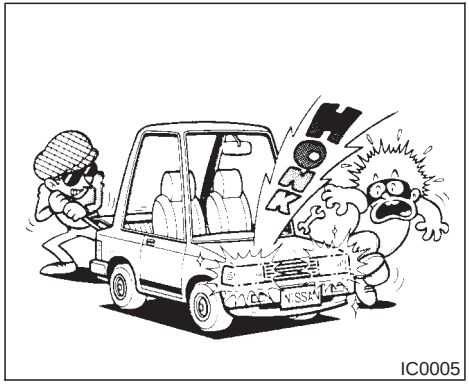
A buzzer will sound when the driver side door is opened if the light switch is turned on (ignition switch is turned off).

Turn the light switch off when you leave the vehicle.

Brake pad wear warning

The disc brake pads have audible wear warnings. When a brake pad requires replacement, it will make a high pitched scraping sound when the vehicle is in motion whether or not the brake pedal is depressed. Have the brakes checked as soon as possible if the warning sound is heard.

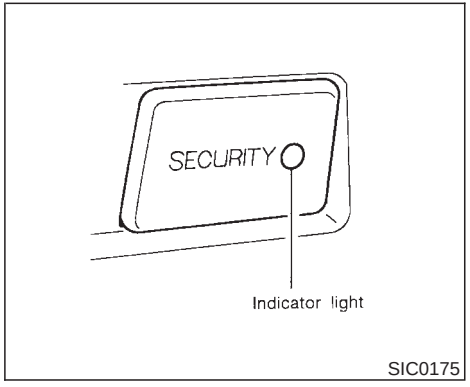
SECURITY SYSTEM (if so equipped)



THEFT WARNING

The theft warning system provides visual and audio alarm signals if parts of the vehicle are disturbed.

DEP
DEALER E-PROCESS



Security indicator light

How to activate the theft warning system

1. Close all windows.

The system can be activated even if the windows are open.

2. Remove the key from the ignition switch.
3. Close and lock all doors, hood and trunk lid. The doors can be locked either with or without the key.

   Multi-remote controller equipped models: Close and lock all doors, hood and trunk lid. Lock all doors by the key or pressing the button on the multi-remote controller. At this time, the hazard indicators flash twice to indicate all doors are locked.
4. Confirm that the SECURITY indicator light comes on. The SECURITY light glows for about 30 seconds and then begins to flash once every 3 seconds. The system is now activated. If, during this 30 second time period, the door is unlocked by the key or the multi-remote controller, or the ignition key is turned to ACC or ON, the system will not activate.

- **If the key is turned slowly toward the front of the vehicle when locking the door, the system may not activate. If the key is returned beyond the vertical position toward the rear of the vehicle to remove the key, the system may be deactivated. If the indicator light fails to glow for 30 seconds, unlock the door once and lock it again.**
- **Even when the driver and/or passengers are in the vehicle, the system will activate with all doors, hood and trunk lid locked and ignition key off. Turn the ignition key to ACC to turn the system off.**

Theft warning system operation

The warning system will give the following alarm:

- The headlights blink and the horn sounds intermittently. In addition, the starter motor will not operate.
- The alarm automatically turns off after 2 to 3 minutes. However, the alarm reactivates if the vehicle is tampered with again. The alarm can be shut off by unlocking a door or trunk lid with the key, or by pressing the button on the multi-remote controller.

The alarm is activated by:

- Opening the door or trunk lid without using the key (even if the door is unlocked by

DEP DEALER E-PROCESS

releasing the door inside lock switch) or opening the trunk lid by operating the opener release button.

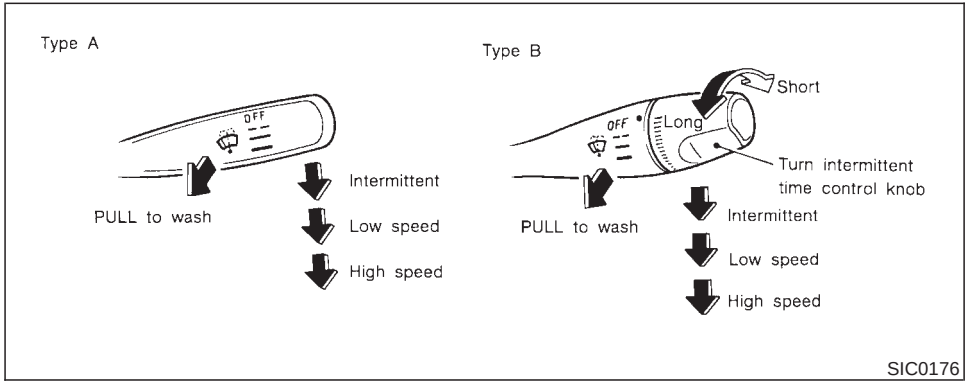
- Opening the hood.
- Pushing in or pulling out of the key cylinder on the door or trunk lid.

How to stop alarm

The alarm will stop only by unlocking a door or trunk lid with the key, or by pressing the button on multi-remote controller. The alarm will not stop if the ignition switch is turned to ACC or ON.

If the system does not operate as described above, have it checked by your NISSAN dealer.

WINDSHIELD WIPER AND WASHER SWITCH



The windshield wiper and washer operates when the ignition key is in the ACC or ON position.

Push the lever down to operate the wiper.

Intermittent operation can be adjusted from 3 to 21 seconds by turning the knob.
(Type B only)

Pull the lever toward you to operate the washer. Then the wiper will also operate several times.

⚠ WARNING

In freezing temperatures the washer solution may freeze on the windshield and obscure your vision which may lead to an accident. Warm the windshield with the defroster before you wash the windshield.

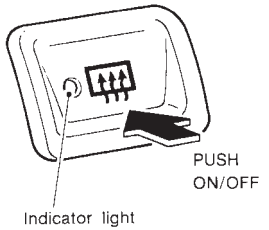
DEP DEALER E-PROCESS

CAUTION

The following could damage the washer system:

- **Do not operate the washer continuously for more than 30 seconds.**
- **Do not operate the washer if the reservoir tank is empty.**

REAR WINDOW AND OUTSIDE MIRROR (if so equipped) DEFOGGER SWITCH



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To defog/defrost the rear window glass and outside mirrors, start the engine and push the switch on. The indicator light will come on. Push the switch again to turn the defogger off.

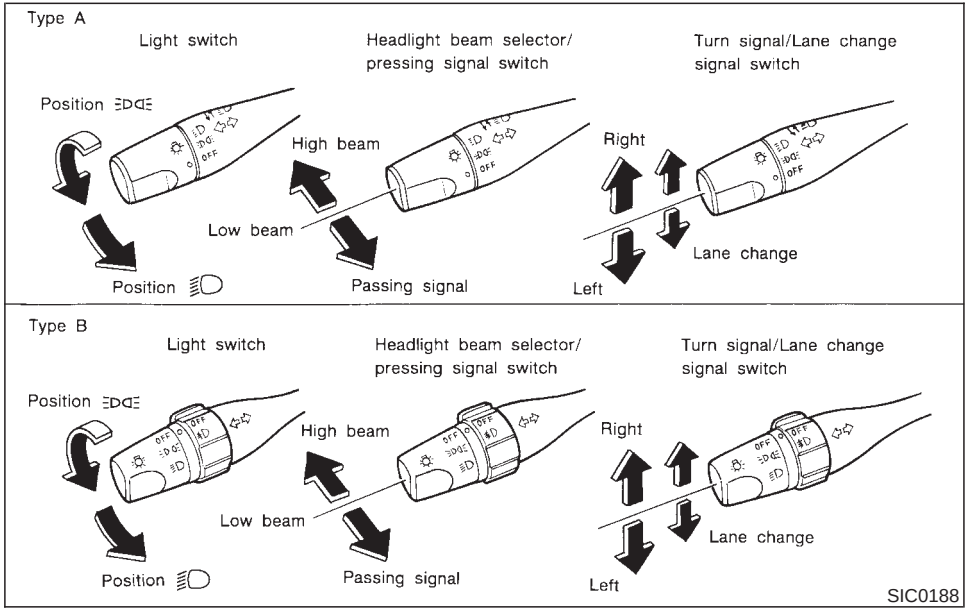
It will automatically turn off in approximately 15 minutes.

CAUTION

When cleaning the inner side of the rear window, be careful not to scratch or damage the rear window defogger.

DEP DEALER E-PROCESS

HEADLIGHT AND TURN SIGNAL SWITCH



HEADLIGHT SWITCH

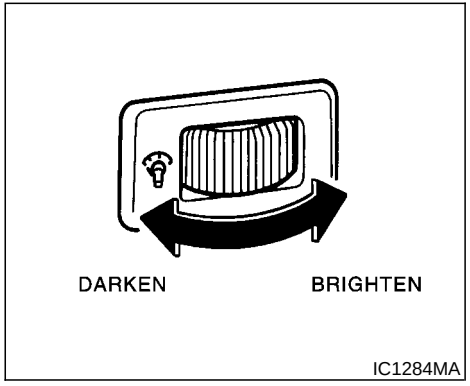
Lighting

Turn the switch to the position:

The front clearance, side marker, tail, license plate and instrument lights will come on.

Turn the switch to the position:

Headlights will come on and all the other lights remain on.



Instrument brightness control

The instrument brightness control operates when the light switch is in the or position.

Turn the control to adjust the brightness of instrument panel lights (except clock) and power window switch lights.
When the control is turned to the right until a click sound is heard, the light intensity will be at maximum. When the control is turned to the left until a click sound is heard, the light will be turned off.

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DEALER E-PROCESS

Headlight beam select

To select the high beam, push the lever forward. Pull it back to select the low beam.

Passing signal

Pulling the lever toward you will flash the headlight high beam.

Daytime running light system (Canada only)

The headlights automatically illuminate at a reduced intensity when the engine is started with the parking brake released. The daytime running lights operate with the headlight switch in the OFF position or in the position. Turn the headlight switch to the position for full illumination when driving at night.

If the parking brake is applied before the engine is started, the daytime running lights do not illuminate. The daytime running lights illuminate once the parking brake is released. The daytime running lights will remain on until the ignition switch is turned off.

⚠ WARNING

When the daytime running light system is active, tail lights on your vehicle are not on. It is necessary at dusk to turn on your headlights. Failure to do so could cause an accident injuring yourself and others.

TURN SIGNAL SWITCH

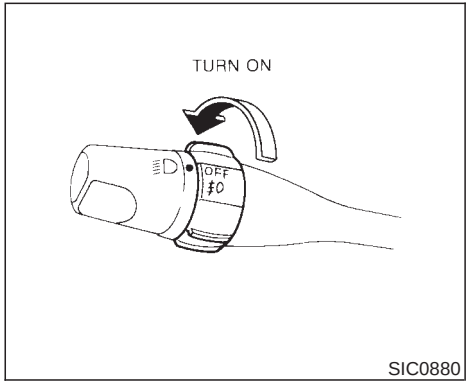
Turn signal

Move the lever up or down to signal the turning direction. When the turn is completed, the turn signals cancel automatically.

Lane change signal

To indicate a lane change, move the lever up or down to the point where lights begin flashing.

FRONT FOG LIGHT SWITCH (if so equipped)

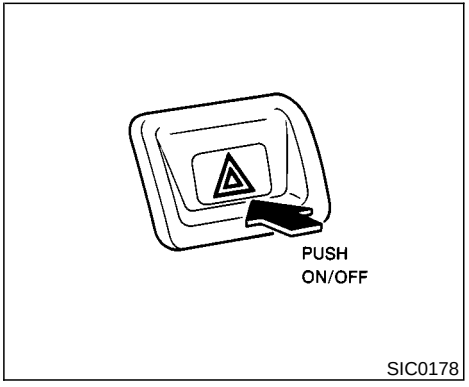


To turn the fog lights on, turn the headlight switch to the position, then turn the switch to the position. To turn them off, turn the switch to the OFF position.

The headlights must be on for the fog lights to operate.

DEP DEALER E-PROCESS

HAZARD WARNING FLASHER SWITCH



Push the switch on to warn other drivers when you must stop or park under emergency conditions. All turn signal lights will flash.

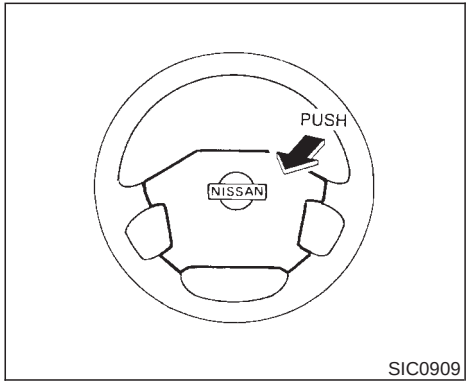
Some state laws may prohibit the use of the hazard warning flasher switch while driving.

⚠ WARNING

- **When stalled or stopped on the roadway under emergency conditions, move the vehicle well off the road.**
- **Do not use the switch while moving on the highway unless unusual circumstances force you to drive so slowly that your vehicle might become a hazard to other traffic.**
- **Turn signals do not work when the switch is operating.**

The flasher can be actuated with the ignition switch either off or on.

HORN



To sound the horn, push the center pad area of the steering wheel.

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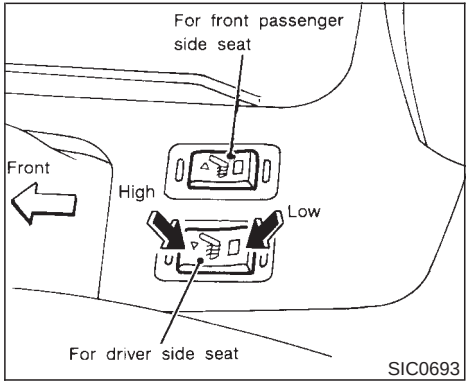
DEALER E-PROCESS

HEATED SEATS (if so equipped)



The front seats are warmed by built-in heaters. The switches located on the center console can be operated independently of each other.

1. Start the engine.

⚠CAUTION

The battery could run down if the seat heater is operated while the engine is not running.

2. Select heat range.
   - For low heat, press the top of the switch.
   - For high heat, press the bottom of the switch.
   - For no heat, the switch has a center OFF position between low and high.

   The indicator light in the switch will illuminate when low or high is selected.

   The heater is controlled by a thermostat, automatically turning the heater on and off. The indicator light will remain on as long as the switch is on.
3. When the vehicle's interior is warmed, or before you leave the vehicle, be sure to turn the switch off.

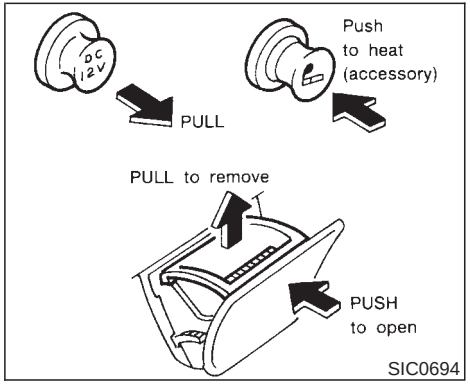
⚠CAUTION

Do not use the seat heater for extended periods or when no one is using the seat.

- **Do not put anything on the seat which insulates heat, such as a blanket, cushion, seat cover, etc. Otherwise, the seat may become overheated.**
- **Do not place anything hard or heavy on the seat or pierce it with a pin or similar object. This may result in damage to the heater.**
- **Any liquid spilled on the heated seat should be removed immediately with a dry cloth.**
- **When cleaning the seat, never use benzine, thinner, or any similar materials.**
- **If any abnormalities are found or the heated seat does not operate, turn the switch off and have the system checked by your NISSAN dealer.**

DEALER E-PROCESS

CIGARETTE LIGHTER AND ASHTRAY



The cigarette lighter element is an accessory. A genuine NISSAN cigarette lighter or equivalent can be purchased from your local NISSAN dealer.

The cigarette lighter operates when the ignition switch is in the ACC or ON position.

Push the lighter in all the way. When the lighter is heated, it will spring out.

Return the lighter to its original position after use.

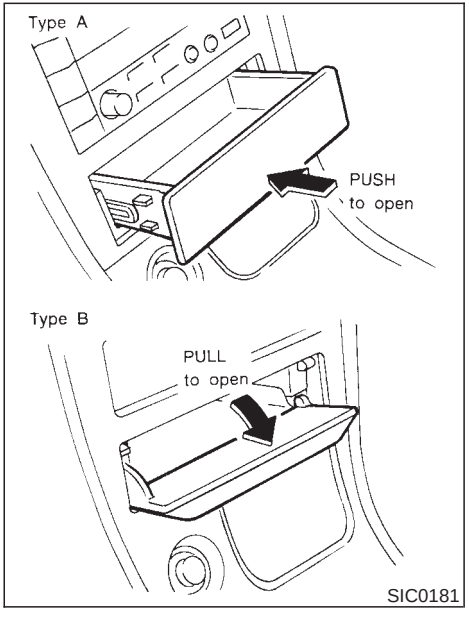
⚠WARNING

The cigarette lighter should not be used while driving in order that full attention may be given to the driving operation.

⚠CAUTION

The cigarette lighter socket is a power source for the cigarette lighter element only. The use of the cigarette lighter socket as a power source for any other accessory is not recommended.

STORAGE



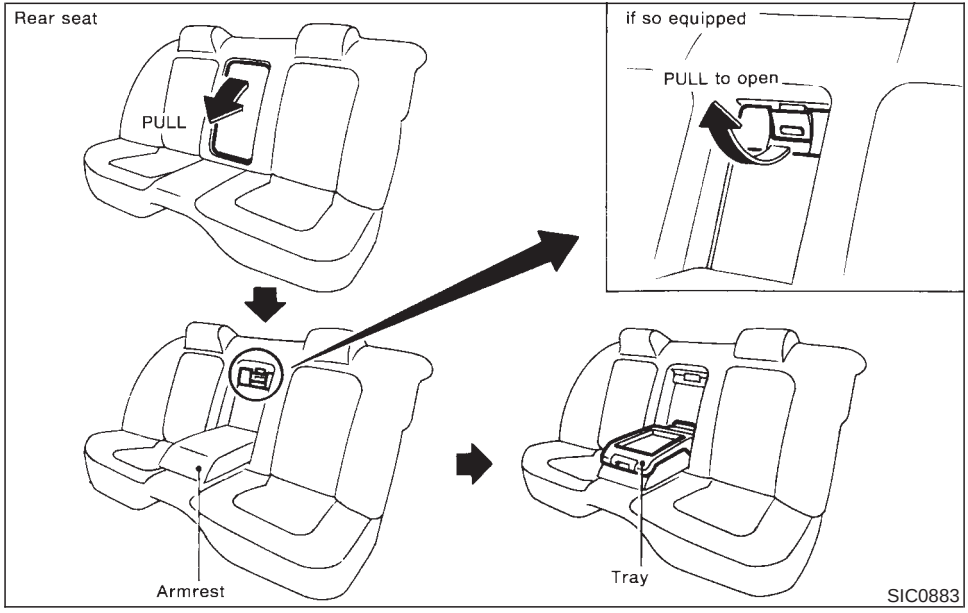
TRAYS

⚠WARNING

The storage tray should not be used

DEP
DEALER E-PROCESS

while driving in order that full attention may be given to the driving operation.



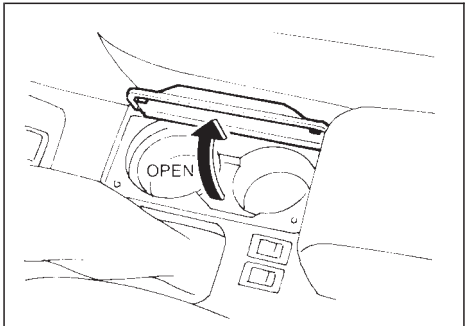
⚠WARNING

Properly secure all cargo to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.

Pull the armrest forward and lay it horizontal. Then release the lever (inset) and pull the tray

DEP
DEALER E-PROCESS

forward (if so equipped). In this condition you are able to gain access to the trunk room.



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CUP HOLDER

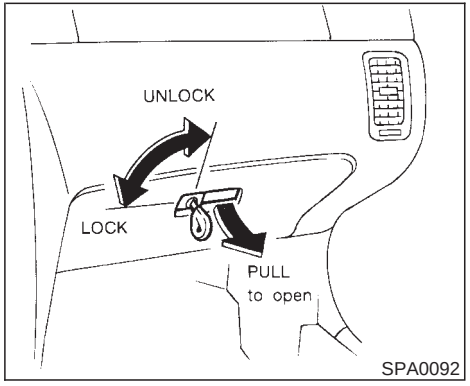
⚠ WARNING

The cup holder should not be used while driving in order that full attention may be given to the driving operation.

⚠ CAUTION

- **Avoid abrupt starting and braking when the cup holder is being used to prevent spilling the drink. If the liquid is hot, it can scald you or your passenger.**
- **Use only soft cups in the cup holder. Hard objects can injure you in an accident.**

DEP DEALER E-PROCESS



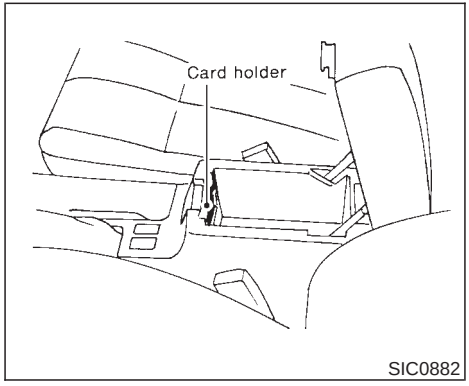
GLOVE BOX

When locking or unlocking the glove box, use the master key.

The glove box may be opened by pulling the handle.

⚠CAUTION

Keep glove box lid closed while driving to help prevent injury in an accident or a sudden stop.

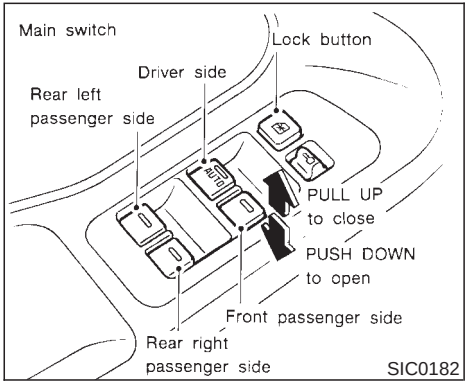


CONSOLE BOX

Card holder

⚠WARNING

The card holder should not be used while driving in order that full attention may be given to the driving operation.



POWER WINDOWS

⚠WARNING

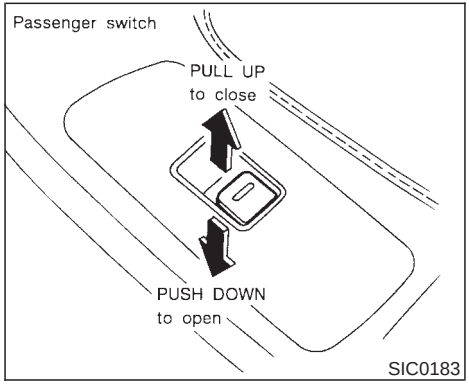
- **Make sure that all passengers have their hands, etc. inside the vehicle before closing the windows. Use the window lock switch to prevent unexpected use of the power windows.**
- **Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls and become trapped in a window.**

DEP DEALER E-PROCESS

Unattended children could become involved in serious accidents.

The power window only operates when the ignition key is in the ON position.

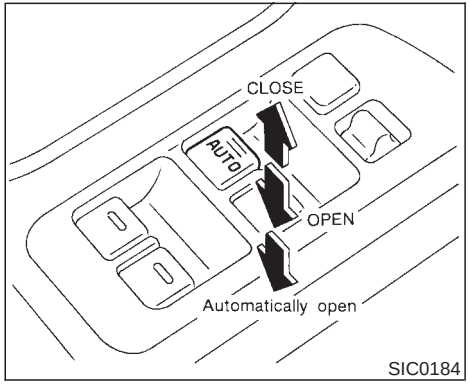
To open or close the window, push down or pull up the switch and hold it. The main switch (driver side switches) will open or close all the windows.



The passenger side switch will open or close only the corresponding window. To open or close the window, hold the switch down or up.

Locking passenger's windows

When the lock button is pushed in, only the driver side window can be opened or closed. Push it in again to cancel.



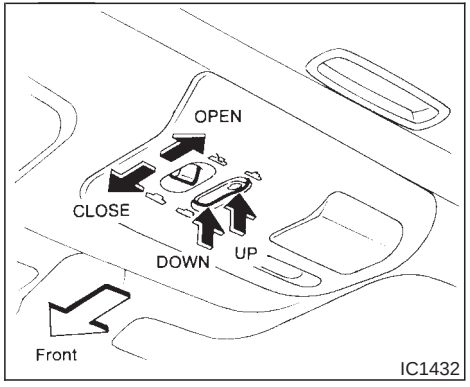
Automatic operation

To fully open the driver side window, completely push down the switch and release it; it need not be held. The window will automatically open all the way. To stop the window, just pull up the switch toward the close side.

A light press on the switch will cause the window to open until the switch is released.

DEP
DEALER E-PROCESS

SUNROOF (if so equipped)



AUTOMATIC SUNROOF

The sunroof will only operate when the ignition key is in the ON position.

Sliding the sunroof

To open the roof, keep pressing the switch to the side.

To close the roof, keep pressing the switch to the side.

Tilting the sunroof

To tilt up, first close the sunroof, then keep pushing the side of the tilt switch. To tilt down the sunroof, keep pushing the side.

Sun shade

Open or close the sun shade by sliding it backward or forward.

The shade will open automatically when the sunroof is opened. However, it must be closed manually.

WARNING

- **In an accident you could be thrown from the vehicle through an open sunroof. Always use seat belts and child restraints.**
- **Do not allow anyone to stand up or extend any portion of their body out of the opening while the vehicle is in motion or while the sunroof is closing.**

CAUTION

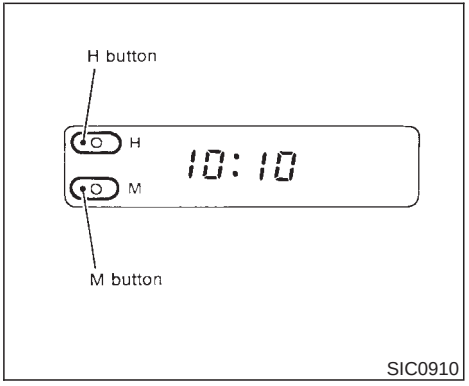
- **Remove water drops, snow, ice or sand from the sunroof before opening.**
- **Do not place any heavy object on the sunroof or surrounding area.**

If the sunroof does not close

Have your NISSAN dealer check and repair the sunroof.

DEP DEALER E-PROCESS

CLOCK



The digital clock displays time when the ignition key is in ACC or ON.

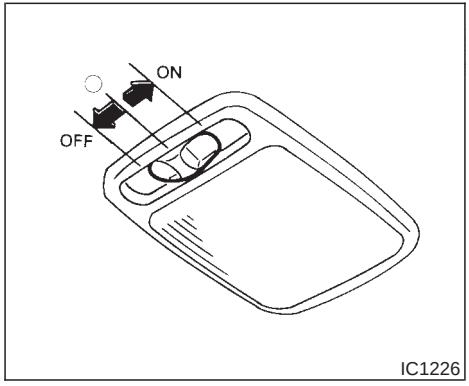
If the power supply is disconnected, the clock will not indicate the correct time. Readjust the time.

ADJUSTING THE TIME

Push the **H** button to adjust the hour.

Push the **M** button to adjust the minute.

INTERIOR LIGHT



CEILING

The light has a three-position switch.

When the switch is in the center ◯ position, the light will illuminate when a door is opened.

The light will stay on for about 30 seconds when:

- The key is removed from the ignition switch while the driver's door is closed.
- The driver's door is unlocked while the key is removed from the ignition switch.
- The key is removed from the ignition switch and the driver's door is opened and then closed.

The timer is cancelled, and the light will turn off when:

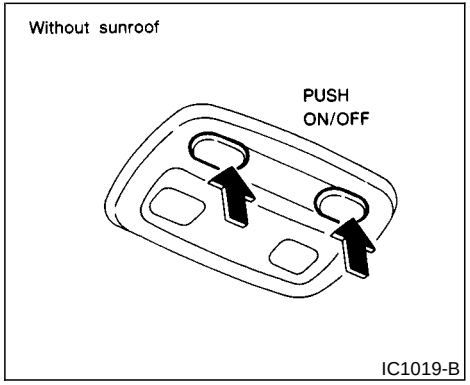
- The driver's door is locked.
- The ignition switch is turned ON.

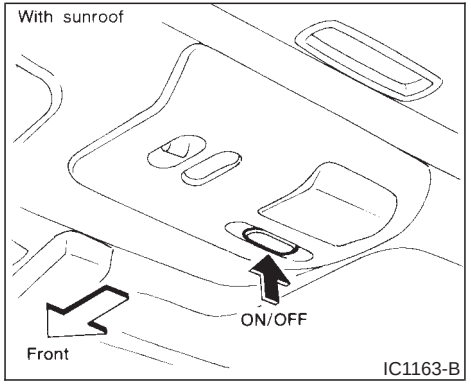
⚠ CAUTION

Leaving the light switch in the ON position for extended periods of time will result in a discharged battery.

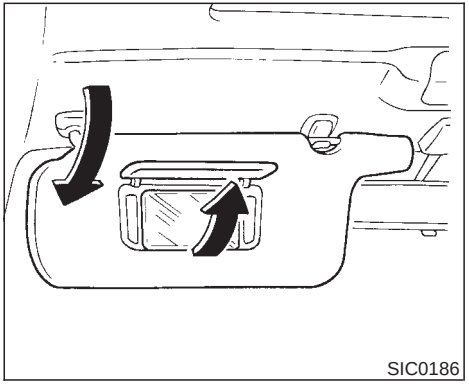
DEP DEALER E-PROCESS

PERSONAL LIGHT





VANITY MIRROR LIGHT (if so equipped)



The light on the vanity mirror will turn on when the cover on the vanity mirror is opened.

DEP
DEALER E-PROCESS

TRUNK LIGHT

The light illuminates when the trunk lid is opened. When the trunk lid is closed, the light will go off.

INTEGRATED HomeLink® TRANSMITTER (if so equipped)

The Integrated HomeLink® Transmitter provides a convenient way to consolidate the functions of up to three individual hand-held transmitters into one built-in device.

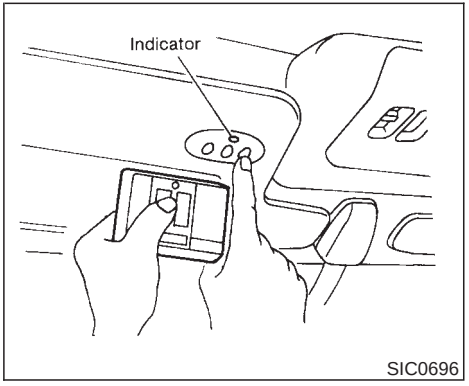
THE INTEGRATED HomeLink® TRANSMITTER:

- Will operate garage doors, gates, home/office lighting systems and security systems by storing and transmitting the programming information of your current hand-held transmitters.
- Is built-in and powered by your vehicle's battery and charging system. No separate batteries are necessary.

⚠ WARNING

Do not use this Integrated HomeLink® Transmitter with any garage door opener that lacks safety stop and reverse features as required by federal safety standards (these standards became effective for models manufactured after April 1, 1982). A garage door opener which cannot detect an object in the path of a closing garage door and then automatically stop and reverse the door, does not meet current federal safety standards. Using a garage door opener without these features increases the risk of serious injury or death.

DEP DEALER E-PROCESS



PROGRAMMING THE HomeLink® TRANSMITTER

⚠ WARNING

During the programming procedure your garage door or security gate will open and close (if the transmitter is within range). Make sure that people or objects are clear of the garage door, gate, etc. that you are programming.

Your vehicle's engine should be turned off while programming your transmitter.

The Integrated HomeLink® Transmitter may not work with older garage door openers that do not meet current Federal Consumer Safety Standards.

1. Test the Integrated HomeLink® Transmitter by pressing any button. The red indicator light should come on. If you have previously programmed a button proceed to step 3.
2. Clear all channels on the Integrated HomeLink® Transmitter by holding down both outside buttons (#1 & #3) until the red light begins to flash rapidly (approximately 20 seconds). Then release both buttons.
3. Select which of the three Integrated HomeLink® Transmitter buttons you want to program.
4. Hold your hand-held transmitter against the bottom surface of the Integrated HomeLink® Transmitter so that you can still see the red indicator light.
5. Press the desired button until the red indicator light flashes slowly. Do not release the button. Continue holding and press the hand-held transmitter button through step 6.
6. Hold down both buttons until the red indicator light on the Integrated HomeLink® Transmitter flashes rapidly (This may take 1-90 seconds). Then release both buttons. The rapid flashing means that the transmitter has been successfully programmed to match your hand-held transmitter. You can now use the Integrated HomeLink® Transmitter instead of your hand-held transmitter.

Note to Canadian users:

Prior to 1992, D.O.C. regulations required many hand-held transmitters to stop transmitting after 1 or 2 seconds, even though you continue to hold down the button. If you think you have one of these hand-held transmitters, you should press and re-press the transmitter button every 2 seconds without ever releasing the integrated HomeLink® Transmitter button. The indicator light on the Integrated HomeLink® Transmitter should blink rapidly indicating a successful programming procedure. If it returns to the slow blink of program mode, continue to periodically reactivate your hand-held transmitter until a successful programming procedure is indicated by the rapidly flashing indicator light.

DEALER E-PROCESS

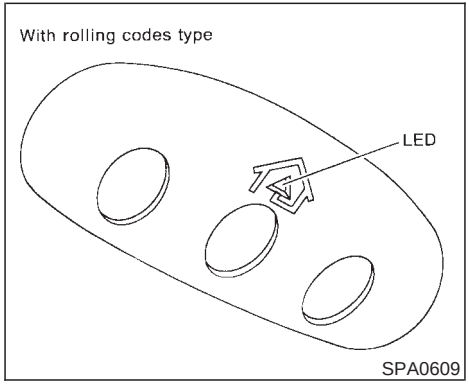
OPERATING THE TRANSMITTER

To operate, simply press the appropriate button on the Integrated HomeLink® Transmitter. The red indicator light illuminates while the signal is being transmitted. The effective transmission range of the Integrated HomeLink® Transmitter may differ from your hand-held transmitter.

PROGRAMMING PROBLEM DIAGNOSIS

Be sure to keep your original hand-held transmitter for possible reprogramming if necessary.

- Make sure batteries in the hand-held transmitter are fully charged.
- Hold your hand-held transmitter against the bottom surface of the Integrated HomeLink® Transmitter so that you can still see the red indicator light.
- Hold buttons for duration of the programming without interruption.
- Rotate your hand-held transmitter end-over-end and program again. For best results, place the end opposite the battery compartment against the Integrated HomeLink® Transmitter when programming.



ROLLING CODES (if so equipped)

If your hand held transmitter appears to train to the HomeLink® Transmitter, but does not open your garage door, and your garage door opener was manufactured after 1995, your garage door opener may have a code protected or rolling code feature. This type of system will change the code of your garage door opener every time you open or close your garage door.

To determine if you have one of these systems, depress the button on the HomeLink® Transmitter that you have just programmed. If the LED on the HomeLink® Transmitter flashes rapidly for 1 to 2 seconds, then remains on, your garage door opener has a rolling code system.

To operate your rolling code garage door opener from your HomeLink® Transmitter, follow these steps:

1. Program your hand held transmitter to the HomeLink® Transmitter by following the procedures outlined above (if not yet programmed).
2. Program your garage door opener receiver to recognize your HomeLink® Transmitter (The HomeLink® Transmitter follows the same procedure to train to the receiver as your hand held transmitter did when it was first installed):
   a) Remove the cover panel from your garage door opener receiver. The receiver should be located by the garage door opener motor.
   b) Locate the training button on the garage door opener receiver. The exact location and color of the button may vary by garage door opener brand. If you have difficulty locating the training button, reference your garage door opener manual. If you have difficulty programming your garage door opener equipped

DEALER E-PROCESS

with a rolling code system to recognize the HomeLink® Transmitter with the rolling code feature, call NISSAN Consumer Affairs Department.

c) Press the training button on the garage door opener receiver for 1 to 2 seconds.

d) Return to the HomeLink® Transmitter in the vehicle, and depress the programmed HomeLink® button for the duration of the fast blink on the HomeLink® Transmitter (1 to 2 seconds). Release the button, and re-press to confirm that the system has trained.

e) Your garage door opener should now recognize your HomeLink® Transmitter. You may use either your HomeLink® Transmitter or your original hand held transmitter to open your garage door.

CLEARING THE PROGRAMMED INFORMATION

Should you sell your vehicle, be sure to clear the channels of the Integrated HomeLink® Transmitter. To clear the channels, simultaneously hold down the outside two buttons (#1 & #3) until the red indicator light begins to flash rapidly (approximately 20 seconds). This will clear all three buttons. Individual buttons cannot be cleared, but can be reprogrammed at any time by following the programming procedures described above.

IF YOUR VEHICLE IS STOLEN

If your vehicle has been stolen, you should change the codes of any device that was programmed into the Integrated HomeLink® Transmitter as soon as possible. Consult the owners manual of each device, or call the manufacturer or dealer of those devices.

When your vehicle is recovered, you will need to reprogram the Integrated HomeLink® Transmitter with your new transmitter information.

FCC Notice:

This device complies with FCC rules part 15. Operation is subject to the following two conditions: (1) This device may not cause harmful interference and (2) This device must accept any interference that may be received, including interference that may cause undesired operation.

The transmitter has been tested and complies with FCC and DOC/MDC rules. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

DOC: ISTC 1763K1313

FCC I.D.: CB2V67690

DEP DEALER E-PROCESS

3 Pre-driving checks and adjustments

Keys 3-2
Doors 3-2
Multi-remote control system (if so equipped) 3-5
Hood 3-9
Trunk lid 3-9
Fuel filler lid 3-11
Steering wheel 3-13
Mirrors 3-13

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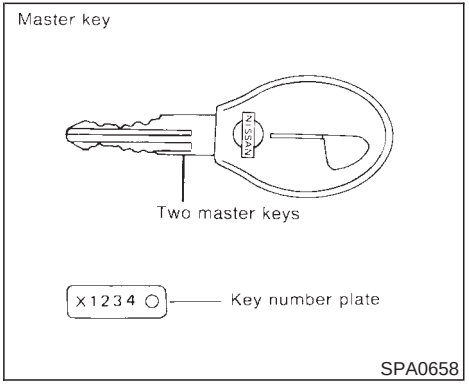
DEALER E-PROCESS

KEYS



The master key can be used for all the locks.

Record the key number on the key number plate and keep it in a safe place (such as your wallet), not in the car. A key number plate is supplied with your key. Keep the plate in a safe place. NISSAN does not record key numbers so it is very important to keep track of your key number plate.

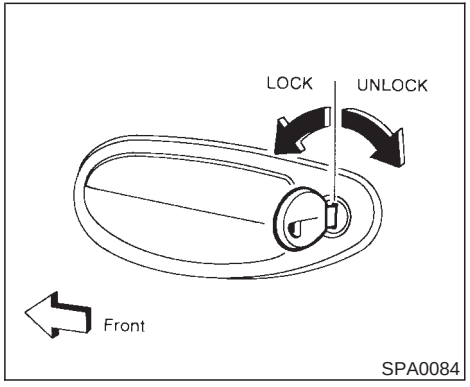
A key number is only necessary when you have lost all keys and do not have one to duplicate from. If you still have a key, this key can be duplicated by your NISSAN dealer or a lock smith shop.

DOORS

WARNING

- **Always have the doors locked while driving. Along with the use of seat belts, this provides greater safety in the event of an accident by helping to prevent persons from being thrown from the vehicle. This also helps keep children and others from unintentionally opening the doors, and will help keep out intruders.**
- **Before opening any door, always look for and avoid oncoming traffic.**
- **Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.**

DEP DEALER E-PROCESS

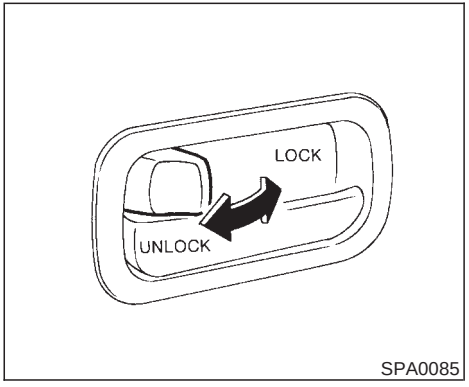


LOCKING WITH KEY

Power

The power door lock system allows you to lock or unlock all doors simultaneously.

- Turning the front door key to the front of the vehicle will lock all doors.
- Turning the front door key one time to the rear of the vehicle will unlock the corresponding door. From that position, returning the key to neutral (where the key can only be removed and inserted.) and turning it to the rear again within 5 seconds will unlock all doors.



LOCKING WITH INSIDE LOCK KNOB

Power

Pushing the front door inside lock knob to the lock position will lock all doors.

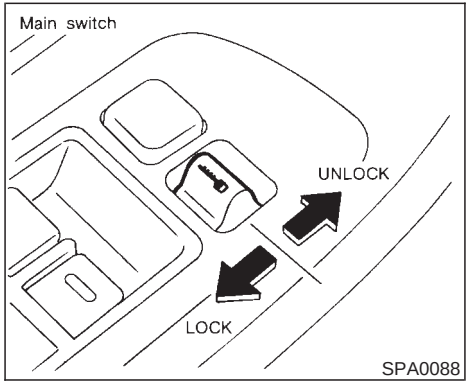
To lock from the outside without a key, move the inside lock knob to the LOCK position. Then close the door.

When locking the door this way, be certain not to leave the key inside the vehicle.

The inside lock knob cannot be set to the LOCK position with the front doors open and

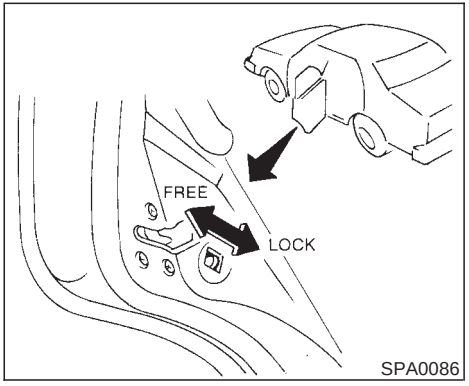
DEP
DEALER E-PROCESS

with the key in the ignition.



LOCKING WITH POWER DOOR LOCK SWITCH

Operating the lock-unlock switch will lock or unlock all doors.



CHILD SAFETY REAR DOOR LOCK

Child safety locking helps prevent doors from being opened accidentally, especially when small children are in the vehicle.

When the lever is in the lock position, the rear door can be opened only from the outside.

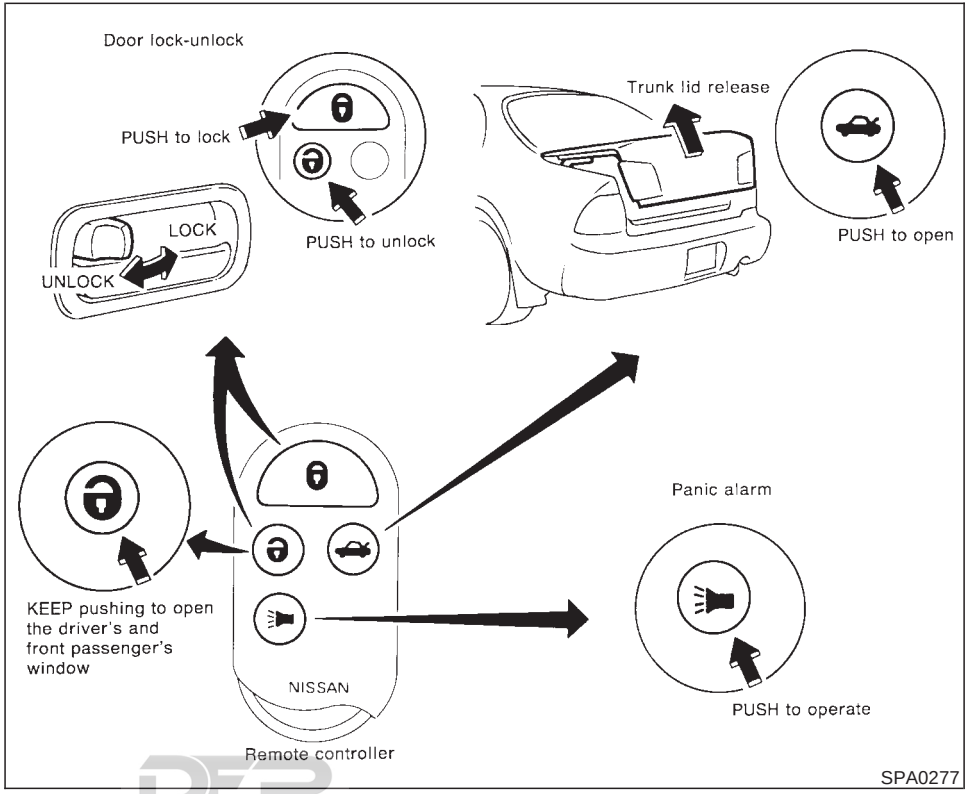
⚠WARNING

- **Before opening any door, always look for and avoid oncoming traffic.**

DEP
DEALER E-PROCESS

- **Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.**

MULTI-REMOTE CONTROL SYSTEM (if so equipped)



DEP
DEALER E-PROCESS

It is possible to lock/unlock all doors, to open the driver's and front passenger's windows, to release the trunk lid and to turn on or off the interior light by using the remote controller from outside the car.

Be sure to remove the key from the vehicle before locking the doors and leaving it.

The remote controller can operate at a distance of approximately 49 ft (15 m) from the vehicle. (The effective distance depends upon the conditions around the vehicle.)

As many as four remote controllers can be used with one vehicle. For information concerning the purchase and use of additional remote controllers, contact your NISSAN dealer.

⚠CAUTION

Listed below are conditions or occurrences which will damage the remote controller.

- **Do not allow the remote controller to become wet.**
- **Do not drop the remote controller.**
- **Do not strike the remote controller sharply against another object.**
- **Do not place the remote controller for an extended period in an area where temperatures exceed 140°F (60°C).**

HOW TO USE MULTI-REMOTE CONTROL SYSTEM

Locking doors

1. Remove the ignition key.
2. Close all of the doors.
3. Push the 🔒 button on the multi-remote controller.
4. The hazard indicators flash twice.
5. All of the doors lock.

When the 🔒 button is pushed with all doors locked, the hazard indicator flashes twice as a reminder that the doors are already locked.

Unlocking doors

1. Push the 🔓 button on the multi-remote controller. Only the driver side door unlocks.
2. Push the 🔓 button on the multi-remote controller again within 5 seconds. The passenger doors unlock.
3. The interior light will stay on for 30 seconds when the interior light switch is in the center ◯ position.

The interior light can be turned off without waiting for 30 seconds by inserting the key into the ignition or locking the doors with the multi-remote controller or by pushing the interior light button to OFF.

Opening the driver's and front passenger's windows

1. Push the 🔓 button on the multi-remote controller for longer than 1.5 seconds after the driver's door is unlocked.
2. The driver's and front passenger's windows open.

   The driver's and front passenger's windows also open after all doors are unlocked with the multi-remote controller.

   The driver's and front passenger's windows cannot be closed by using the multi-remote controller.

DEP DEALER E-PROCESS

Releasing the trunk lid

1. Push the button on the multi-remote controller for longer than 0.5 second.
2. The trunk lid opens.

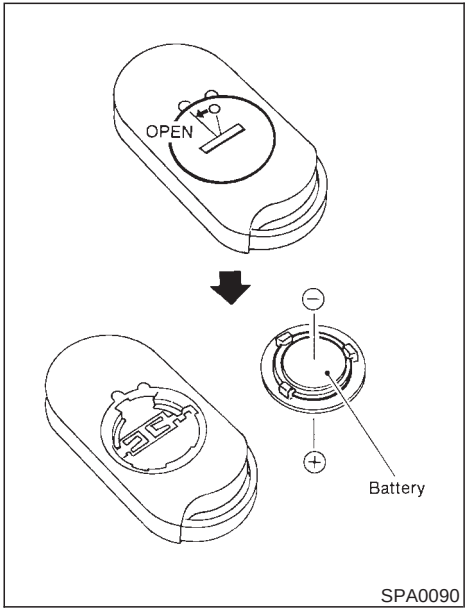
The trunk lid will not open when the trunk lid cancel lever is in the CANCEL position.
It can be opened only with the key.

See “Trunk lid” later in this section for cancel lever.

Using the panic alarm

If you are near your vehicle and feel threatened, you may activate the panic alarm to call attention as follows:

1. Push the button on the multi-remote controller for longer than 1.5 seconds.
2. The panic alarm and headlight will stay on for 30 seconds.
3. The panic alarm stops when:
   - It has run for 30 seconds, or
   - The or the button is pressed, or
   - The button is pushed for longer than 1.5 seconds on the multi-remote controller.



BATTERY REPLACEMENT

Replace the battery as follows:

1. Open the lid using a suitable tool.
2. Replace the battery with a new one.

DEP
DEALER E-PROCESS

Recommended battery: Sanyo CR2025 or equivalent

3. Close the lid securely.
4. Push the remote controller button two or three times to check its operation.

If the battery is removed for any reason other than replacement, perform step 4 above.

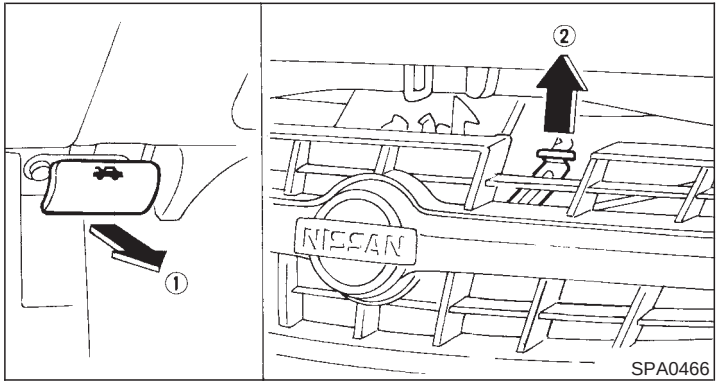
- **An improperly disposed battery can harm the environment. Always confirm local regulations for battery disposal.**
- **The remote controller is water-resistant; however, if it does get wet, immediately wipe completely dry.**
- **When changing batteries, do not let dust or oil get on the controller.**

FCC Notice:

Changes or modifications not expressly approved by the manufacturer compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules and RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

DEP DEALER E-PROCESS

HOOD



1. Pull the hood lock release handle (1) located below the instrument panel; the hood will then spring up slightly.
2. Pull the lever (2) at the front of the hood with your fingertips and raise the hood.
3. When closing the hood, slowly close the hood and make sure it locks into place.

⚠WARNING

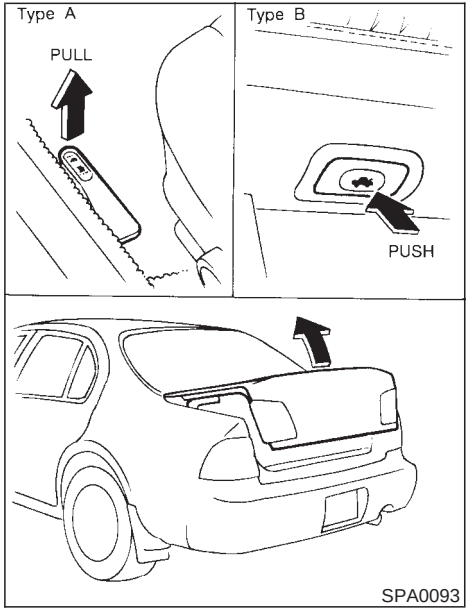
- **Make sure the hood is completely closed and latched before driving. Failure to do so could cause the hood to fly open and result in an accident.**
- **If you see steam or smoke coming from the engine compartment, to avoid injury do not open the hood.**

TRUNK LID

⚠WARNING

Do not drive with the trunk lid open. This could allow dangerous exhaust gases to be drawn into the vehicle. See "Precautions when starting and driving" in the "5. Starting and driving" section for exhaust gas.

DEP DEALER E-PROCESS



OPENER OPERATION

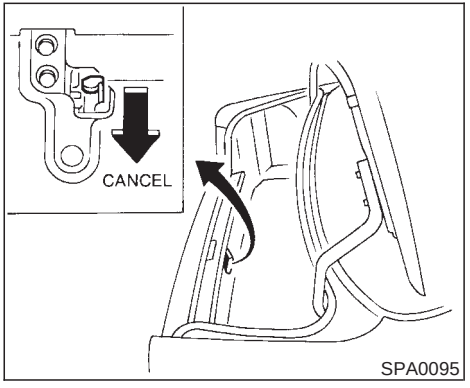
Type A:

The trunk lid release lever is located on the outside of the driver's seat. To open the trunk lid, pull up the trunk lid release lever. To close, push the trunk lid down securely.

Type B:

The trunk lid release button is located under the driver's arm rest.

To open the trunk lid, push the release button. To close, push the trunk lid down securely.

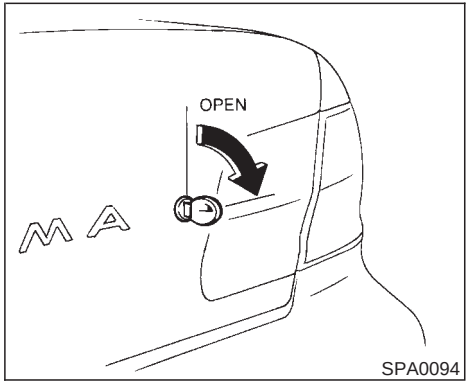


Cancel lever

When the lever is in the cancel position, the trunk lid cannot be opened with the trunk lid release lever or handle. It can be opened only with the key.

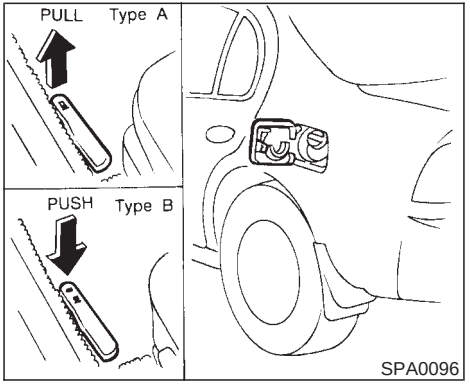
DEP DEALER E-PROCESS

FUEL FILLER LID



KEY OPERATION

To open the trunk lid, turn the key clockwise. To close, lower and push the trunk lid down securely.



OPENER OPERATION

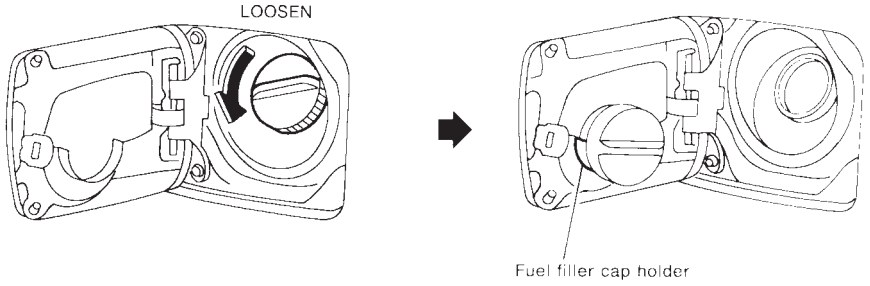
Type A:

To open the fuel filler lid, pull the opener lever. To lock, close the fuel filler lid securely.

Type B:

To open the fuel filler lid, push the opener lever down. To lock, close the fuel filler lid securely.

DEP DEALER E-PROCESS



SPA0653

FUEL FILLER CAP

The fuel filler cap is a screw-on ratcheting type. Tighten the cap clockwise until ratcheting clicks are heard.

Put the fuel filler cap on the cap holder while refueling.

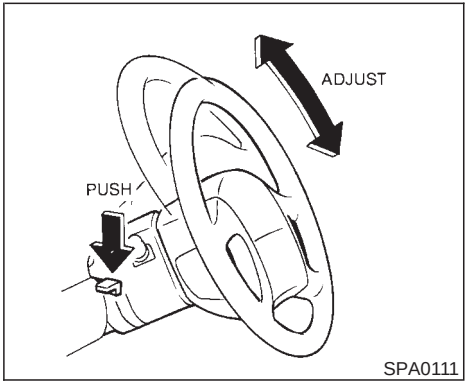
⚠ WARNING

- **Gasoline is extremely flammable and highly explosive under certain conditions. You could be burned or seriously injured if it is misused or mishandled. Always stop the engine and do not smoke or allow open flames or sparks near the vehicle when refueling.**
- **Fuel may be under pressure. Turn the cap one-half turn, and wait for any hissing sound to stop to prevent fuel from spraying out and possible personal injury. Then remove the cap.**
- **Do not attempt to top off the fuel tank after the fuel pump nozzle shuts off automatically.**
  Continued refueling may cause fuel overflow, resulting in fuel spray and possibly a fire.
- **Use only a genuine NISSAN fuel filler cap as a replacement. It has a built-in safety valve needed for proper operation of the fuel system and emission control system. An incorrect cap can result in a serious malfunction and possible injury.**
- **Never pour fuel into the throttle body to attempt to start your vehicle.**

⚠ CAUTION

- **If fuel is spilled on the car body, flush it away with water to avoid paint damage.**
- **Tighten until the cap clicks. Failure to tighten the fuel cap properly may cause the SERVICE ENGINE SOON Malfunction Indicator Light (MIL) to illuminate. If this occurs, it will be necessary to take your vehicle in for service by an authorized NISSAN dealer.**

STEERING WHEEL



TILT OPERATION

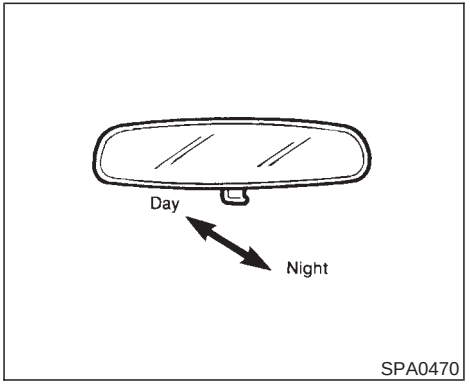
Push the lock lever and while holding down, adjust the steering wheel up or down to the desired position.

Push the lock lever back into place to lock the steering wheel in place.

⚠WARNING

Do not adjust the steering wheel while driving. You could lose control of your vehicle and cause an accident.

MIRRORS



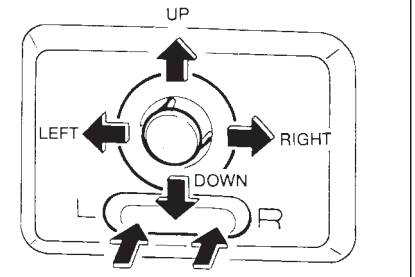
INSIDE MIRROR

The night position will reduce glare from the headlights of vehicles behind you at night.

⚠WARNING

Use the night position only when necessary, because it reduces rear view clarity.

DEP
DEALER E-PROCESS



SPA0112

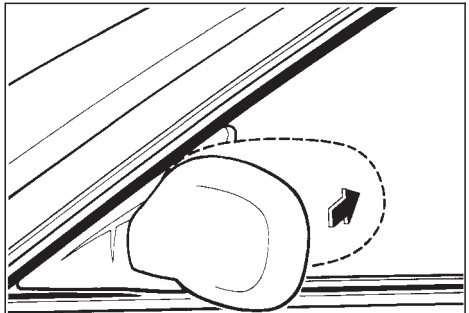
OUTSIDE MIRRORS

⚠ WARNING

Objects viewed in the outside mirror on the passenger side are closer than they appear. Be careful when moving to the right. Using only this mirror could cause an accident. Use inside mirror or glance over your shoulder to properly judge distances to other objects.

The outside mirror will operate only when the ignition switch is in the ACC or ON position.

Push the right or left end of the switch to select the right or left outside mirror, then adjust using the control lever.


MPA0008

Foldable outside mirrors

Push the outside mirror backward to fold it.

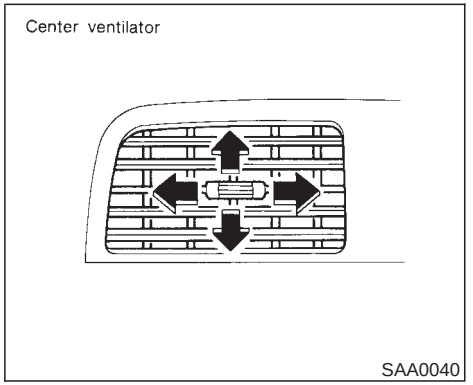
DEP DEALER E-PROCESS

4 Heater, air conditioner and audio systems

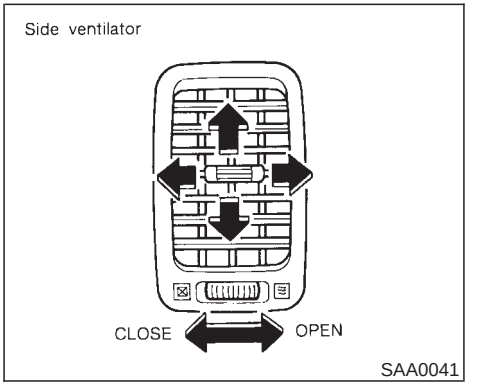
Ventilators 4-2
Heater and air conditioner (Manual) 4-3
Heater and air conditioner (Automatic)
(if so equipped) 4-9
Servicing air conditioner..... 4-12
Audio system..... 4-12
CB radio or car phone 4-25

DEP
DEALER E-PROCESS

VENTILATORS



Adjust the air flow direction of ventilators.

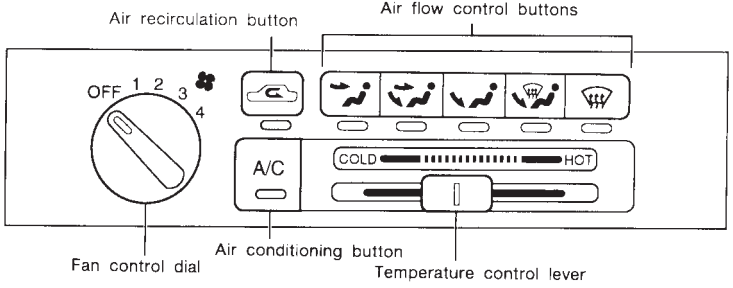


Open or close, and adjust the air flow direction of ventilators.

⊠ : This symbol indicates that the vents are closed when the vent switch is moved to the left.

≋ : This symbol indicates that the vents are open when the vent switch is moved to the right.

DEP
DEALER E-PROCESS



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⚠WARNING

- **The air conditioner cooling function operates only when the engine is running.**
- **Do not leave children, unreliable adults, or pets alone in your vehicle. On hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.**
- **Do not use the recirculation mode for long periods as it may cause the interior air to become stale and the windows to fog up.**
- **Positioning of the heating or air conditioning controls should not be done while driving, in order that full attention may be given to the driving operation.**

CONTROLS

Fan control dial

This dial turns the fan on and off, and controls fan speed.

Air flow control buttons

These buttons allow you to select the air flow outlets.

- — Air flows from center and side ventilators.
- — Air flows from center and side ventilators and foot outlets.
- — Air flows mainly from foot outlets.
- — Air flows from defroster outlets and foot outlets.
- — Air flows mainly from defroster outlets.

Temperature control lever

This lever allows you to adjust the temperature of the outlet air.

DEP DEALER E-PROCESS

Air recirculation button

OFF position:

Outside air is drawn into the passenger compartment.

Use the off position for normal heater, or air conditioner operation.

ON position (Indicator light ON):

Interior air is recirculated inside the vehicle.

Push the air recirculation button to the ON position when driving on a dusty road or to avoid traffic fumes and for maximum cooling when using the air conditioner.

Air conditioning button

This button is provided only for vehicles with air conditioner.

Start the engine, move the fan control dial to the desired (1 to 4) position and push the air conditioning button to turn on the air conditioner. The indicator light will come on when the air conditioner is on. To stop the air conditioner, push the switch again to return it to the original position.

The air conditioner cooling function operates only when the engine is running.

HEATER OPERATION

Heating

This mode is used to direct hot air from the floor outlets. Some air will also come from the defrost vents.

1. Push the air recirculation button to the OFF position for normal heating.
2. Push the button in.
3. Turn on the fan control dial.
4. Move the temperature control lever to the desired position between the middle and the HOT position.

For quick heating, move the air recirculation button to the ON position. Be sure to return the air recirculation button to the OFF position for normal heating.

Ventilation

This mode directs outside air from the side and center vents.

1. Push the air recirculation button to the OFF position.
2. Push the button in.
3. Turn on the fan control dial.
4. Move the temperature control lever to the desired position.

Defrosting or defogging

This mode is used to defrost/defog the windows.

1. Push the button in.
2. Turn on the fan control dial.
3. Move the temperature control lever to the desired position between the middle and the HOT position.

- To quickly remove ice or fog from the windows, turn on the fan control dial to 4 and the temperature control lever to the full HOT position.
- When the button is pushed, the air conditioner will automatically be turned on to defog the windshield, and the air recirculate mode will automatically be turned off.

  Outside air is drawn into the passenger compartment to improve the defogging performance.

DEP DEALER E-PROCESS

Bi-level heating

This mode directs outside air from the side and center vents and hot air from the floor outlets.

1. Push the air recirculation button to the OFF position.
2. Push the button in.
3. Turn on the fan control dial.
4. Normally move the temperature control lever to the midpoint between HOT and COLD.

Heating and defogging

This mode heats the interior and defogs the windshield.

1. Push the button in.
2. Turn on the fan control dial.
3. Move the temperature control lever to the desired position between the middle and the HOT position.

Operating tips

- **Clear snow and ice from the wiper blades and air inlet in front of the windshield. This will improve heater operation.**
- When the button is pushed, the air recirculate mode will automatically be turned off.

  Outside air is drawn into the passenger compartment to improve the defogging performance.

AIR CONDITIONER OPERATION

Start the engine, move the fan control dial to the desired (1 to 4) position and push in the air conditioning button to activate the air conditioner. When the air conditioner is on, cooling and dehumidifying functions will be added to the heater operation.

Cooling

This mode is used to cool and dehumidify.

1. Push the air recirculation button to the OFF position.
2. Push the button in.
3. Turn on the fan control dial.
4. Push on the air conditioning button. The indicator light will come on.
5. Move the temperature control lever to the desired position.

For quick cooling when the outside temperature is high, move the air recirculation button to the ON position. Be sure to return the air recirculation button to the OFF position for normal cooling.

DEP DEALER E-PROCESS

Dehumidified heating

This mode is used to heat and dehumidify.

1. Push the air recirculation button to the OFF position.
2. Push the button in.
3. Turn on the fan control dial.
4. Push on the air conditioning button. The indicator light will come on.
5. Move the temperature control lever to the desired position.

Dehumidified defogging

This mode is used to defog the windows and dehumidify.

1. Push the button in.
2. Turn on the fan control dial.
3. Push on the air conditioning button. The indicator light will come on.
4. Move the temperature control lever to the desired position.

When the button is pushed, the air conditioner will automatically be turned on to defog the windshield, and the air recirculate mode will automatically be turned off.

Outside air is drawn into the passenger compartment to improve the defogging performance.

Operating tips

- Keep the windows and sun roof closed while the air conditioner is in operation.
- After parking in the sun, drive for 2 or 3 minutes with the windows open to vent hot air from the passenger compartment. Then, close the windows. This will allow the air conditioner to cool the interior more quickly.
- **The air conditioning system should be operated for about 10 minutes at least once a month. This helps prevent damage to the system due to lack of lubrication.**
- If the coolant temperature gauge exceeds the HOT position, turn the air conditioning off. For additional information, see “If your vehicle overheats” in the “6. In case of emergency” section.

AIR FLOW CHARTS

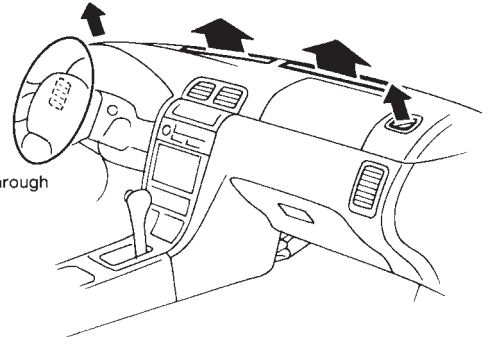
The chart below shows the button and lever positions for **maximum and quick** heating, cooling or defrosting.

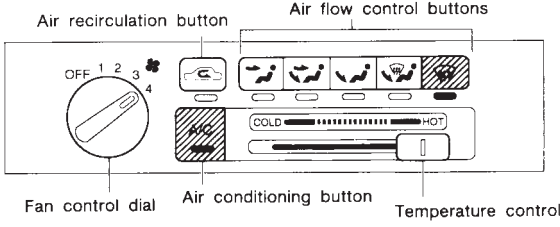
The air recirculation button should be in the OFF position for normal cooling, heating and defrosting.

DEP DEALER E-PROCESS

DEFROSTING
DEFOGGING

: Air passed through heater core





A/C button	Air recirculation	Air flow control	Temp control	Fan control
ON	OFF	DEF	HOT (RIGHT)	4

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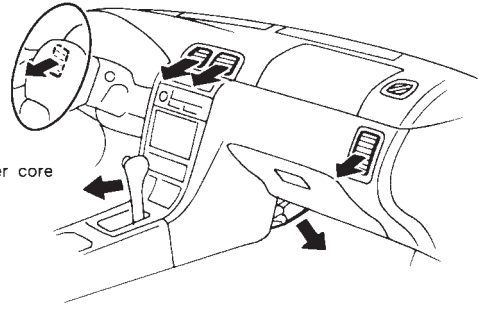
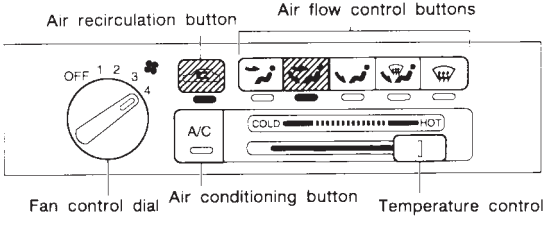
HEATING
Heated air at center vents

: Air passed through heater core





A/C button	Air recirculation	Air flow control	Temp control	Fan control
OFF	ON	FOOT & FACE	HOT (RIGHT)	4

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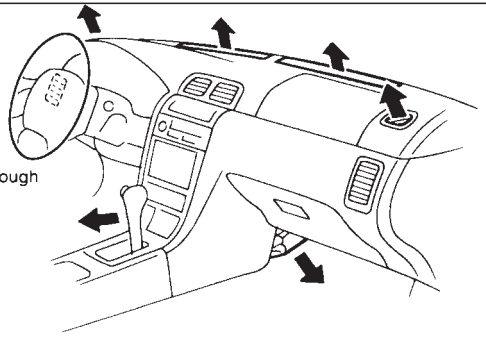
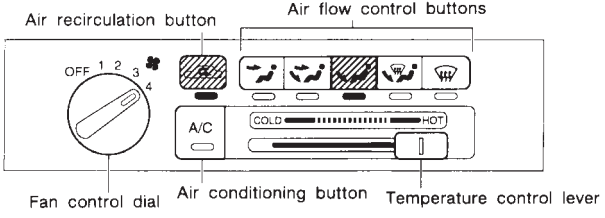
DEP DEALER E-PROCESS

HEATING
No air at
center vents

: Air passed through heater core





A/C button	Air recirculation	Air flow control	Temp control	Fan control
OFF	ON	FOOT	HOT (RIGHT)	4

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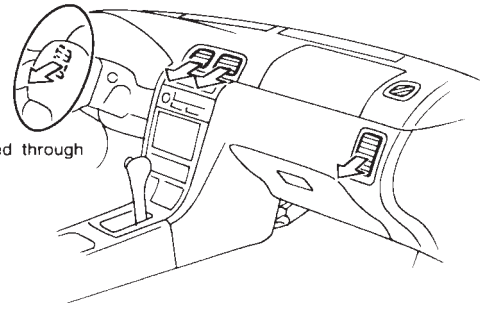
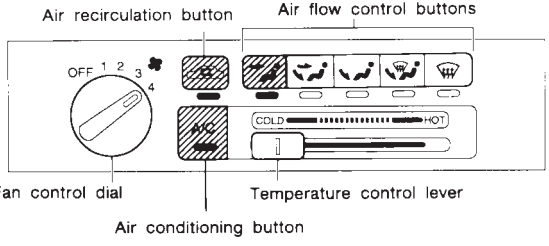
COOLING

: Air not passed through heater core





A/C button	Air recirculation	Air flow control	Temp control	Fan control
ON	ON	FACE	COLD (LEFT)	4

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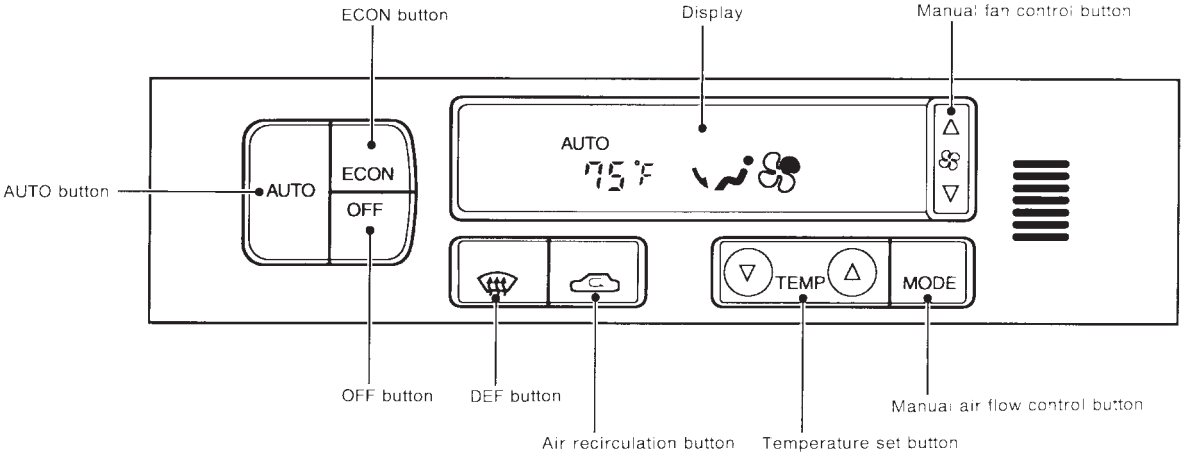
HEATER AND AIR CONDITIONER
(Automatic) (if so equipped)



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⚠ WARNING

- **The air conditioner cooling function operates only when the engine is running.**
- **Do not leave children, unreliable adults, or pets alone in your vehicle. On hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.**
- **Do not use the recirculation mode for long periods as it may cause the interior air to become stale and the windows to fog up.**
- **Positioning of the heating or air conditioning controls should not be done while driving, in order that full attention may be given to the driving operation.**

Start the engine and operate the controls to activate the air conditioner.

AUTOMATIC OPERATION

Cooling and/or dehumidified heating (AUTO)

This mode may be normally used all year round as the system automatically works to keep a constant temperature. Air flow distribution and fan speed are also controlled automatically.

1. Push the AUTO button on. (AUTO will be displayed.)
2. Push the temperature set button ▽ or △ to set the desired temperature.

- Adjust the temperature set button to about 75°F (24°C) for normal operation.
- The temperature of the passenger compartment will be maintained automatically. Air flow distribution and fan speed are also controlled automatically.

Heating (ECON)

The air conditioner does not activate. When you need to heat only, use this mode.

1. Push the ECON (Economy) button on. (ECON will be displayed.)
2. Push the temperature set button ▽ or △ to set the desired temperature.

- The temperature of the passenger compartment will be maintained automatically. Air flow distribution and fan speed are also controlled automatically.
- Do not set the temperature lower than the outside air temperature. Otherwise the system may not work properly.
- Not recommended if windows fog up.

Dehumidified defogging

1. Push the DEF button on. (The indicator light on the button will come on.)
2. Push the temperature set button ▽ or △ to set the desired temperature.

- To quickly remove ice or fog from the outside of the windows, push the manual fan control button and set to the maximum position .
- As soon as possible after the windshield is clean, push the AUTO button to return to the auto mode.
- When the DEF button is pushed, the air conditioner will automatically be turned on at outside temperatures above 35°F

DEP DEALER E-PROCESS

(2°C) to defog the windshield, and the air recirculate mode will automatically be turned off.

Outside air is drawn into the passenger compartment to improve the defogging performance.

MANUAL OPERATION

Fan speed control

Push the fan control button to manually control the fan speed.

Push the AUTO button to return to automatic control of the fan speed.

Air recirculation

Push the air recirculation button to recirculate interior air inside the vehicle. The indicator light on the switch will come on.

Push it again to draw outside air into the passenger compartment. The indicator will go out.

The air recirculation button will not be activated when the air conditioner is in DEF mode.

Air flow control

Pushing the manual air flow control button selects the air outlet to:

: Air flows from center and side ventilators.

: Air flows from center and side ventilators and foot outlets.

: Air flows mainly from foot outlets.

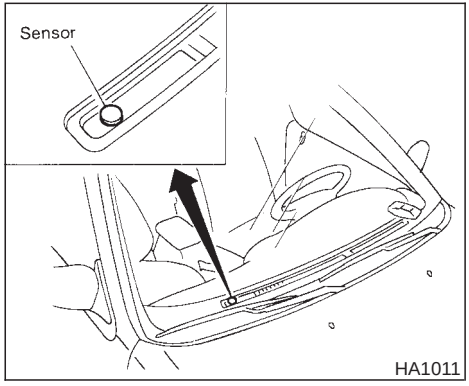
: Air flow from defroster and foot outlets.

To turn system off

Push the OFF button.

OPERATING TIPS

When the engine coolant temperature and outside air temperature are low, the air flow from the foot outlets may not operate for a maximum of 150 seconds. However, this is not a malfunction. After the coolant temperature warms up, the air flow from the foot outlets will operate normally.



The sensor on the instrument panel helps maintain a constant temperature; do not put anything on or around this sensor.

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SERVICING AIR CONDITIONER

The air conditioning system in your NISSAN vehicle is charged with a refrigerant designed with the environment in mind. **This refrigerant will not harm the earth's ozone layer.** However, special charging equipment and lubricant are required when servicing your NISSAN air conditioner. Using improper refrigerants or lubricants will cause severe damage to your air conditioning system. See "Capacities and recommended fuel/lubricants" in the "10. Technical and consumer information" section for air conditioning system refrigerant and lubricant recommendations.

Your NISSAN dealer will be able to service your environmentally friendly air conditioning system.

⚠ WARNING

The air conditioner system contains refrigerant under high pressure. To avoid personal injury, any air conditioner service should be done only by an experienced technician with proper equipment.

AUDIO SYSTEM

RADIO

To turn the radio on, turn the ignition key to ACC or ON. If you listen to the radio with the engine not running, turn the key to the ACC position.

Radio reception is affected by station signal strength, distance from radio transmitter, buildings, bridges, mountains and other external influences. Intermittent changes in reception quality normally are caused by these external influences.

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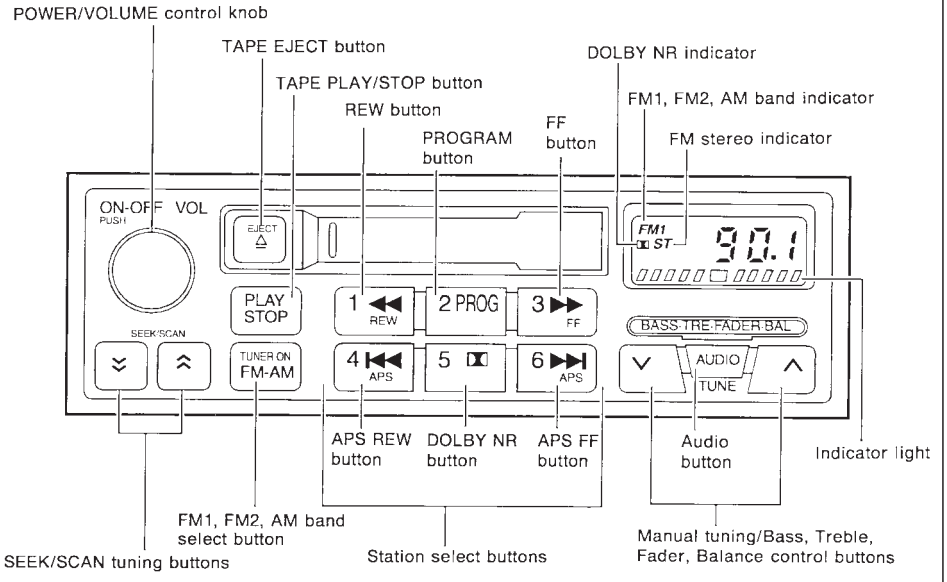
FM-AM RADIO WITH CASSETTE PLAYER



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FM-AM RADIO WITH CASSETTE PLAYER

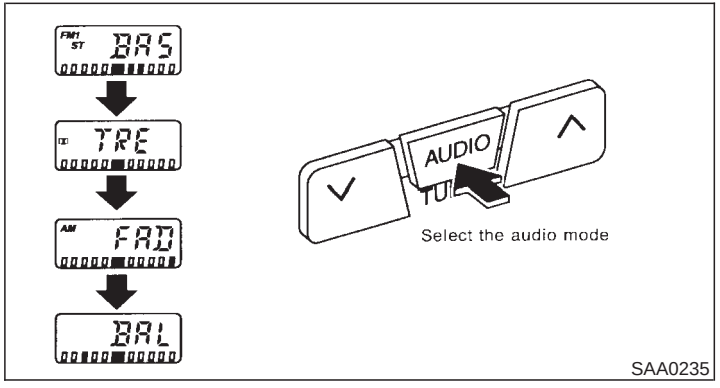
Audio main operation

Power/Volume control:

Turn the ignition key to ACC or ON, then push the Power/Volume control knob. The mode (radio or cassette) which was playing immediately before the system was turned off resumes playing. When no cassette is loaded, the radio comes on. Pushing the Power/Volume control knob again turns the system off.

Turn the Power/Volume control knob to adjust the volume.

DEP DEALER E-PROCESS



Adjusting tone quality and speaker balance:

To adjust BASS·TREB·FADER·BAL (Bass, Treble, Fader, Balance), press the AUDIO button until the desired mode (BAS, TRE, FAD or BAL) appears in the display.

Press the ⌄ or ⌃ button to adjust BASS and TREB to the desired level. Use the ⌄ or ⌃ button to adjust FADER or BAL modes. FADER adjusts the sound level between the front and rear speakers and BAL adjusts the sound level between the right and left speakers.

After 10 seconds, the radio or cassette tape display reappears. Once the sound quality is set to the desired level, press the AUDIO button repeatedly until the radio or cassette tape display appears.

Radio/Cassette tape priority mode

In this mode, the radio station illuminates in the display during radio operation. During cassette tape operation, TAPE illuminates in the display.

FM-AM radio operation

TUNER ON FM - AM **FM-AM band select:**

Push the FM-AM band select button to listen to the radio and tune in the desired station.

Pushing the FM-AM band select button will change the band FM1, FM2 or AM.

The FM stereo indicator, ST illuminates during FM stereo reception. When the stereo broadcast signal is weak, the radio automatically changes from stereo to monaural reception.

⌄ ⌃ **TUNE (Tuning):**

⚠WARNING

The radio should not be tuned while driving in order that full attention may be given to the driving operation.

Push either manual tuning button ⌄ or ⌃.

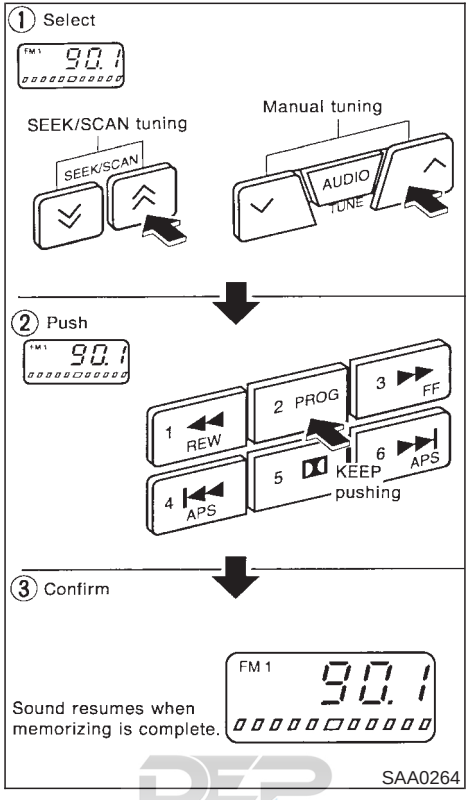
⌄⌄ ⌃⌃ **SEEK/SCAN tuning:**

Push the SEEK/SCAN tuning button ⌄⌄ or ⌃⌃ for less than 1.5 seconds. SEEK tuning begins from high to low or low to high frequencies and stops at the next broadcasting station. Pushing the button again continues the SEEK function. Once the highest broadcasting

DEP DEALER E-PROCESS

station is reached, the radio continues in the SEEK mode at the lowest broadcast station.

Push the SEEK/SCAN tuning button ⩔ or ⩓ for more than 1.5 seconds. SCAN illuminates in the display window. SCAN tuning begins from high to low or low to high frequencies and stops at each broadcasting station for 5 seconds. Pushing the button again during this 5 second period stops SCAN tuning and the radio remains tuned to that station.



Station memory operations:

Six stations can be set for the AM band. 12 stations can be set for the FM band (six for FM1, six for FM2).

1. Push the FM-AM band select button to select AM, FM1, or FM2. The selected band illuminates in the display.
2. Tune to the desired station.
3. Push the desired select button for more than 1.5 seconds. For example, in the illustrations ch2 is to be memorized. The radio mutes when the select button is pushed.
4. When the sound resumes, memorizing is complete.
5. Other station select buttons can be set in the same manner.

If the battery cable is disconnected, or if the radio fuse opens, the radio memory is cancelled. In that case, reset the desired stations.

Cassette tape player operation

Turn the ignition key to ACC or ON, then carefully insert a cassette tape into the tape door.

The cassette tape automatically pulls into the player. The word TAPE and moving digital

DEP DEALER E-PROCESS

squares illuminate on the right side of the display window.

CAUTION

Do not force the cassette tape into the tape door. This could cause player damage.

The cassette tape automatically changes directions to play the other side when the first side is complete. At this time, the moving digital squares illuminate on the left side of the display window.

Precaution on cassette player operation:

- To maintain good quality sound, NISSAN recommends using cassette tapes of 60 minutes or shorter in length.
- Cassette tapes should be removed from the player when not in use. Store cassettes in their protective cases and away from direct sunlight, heat, moisture and magnetic sources.
- Direct sunlight can cause the cassette to become deformed. The use of deformed cassettes may cause the cassette to jam in the player.
- Do not use cassettes with labels which are peeling and loose. If used, the label could jam in the player.
- If a cassette has loose tape, insert a pencil through one of the cassette hubs and rewind the tape firmly around the hubs. Loose tape may cause tape jamming and wavering sound quality.
- Over a period of time, the playback head, capstan and pinch roller may collect a tape coating residue as the tape is played. This residue accumulation can cause weak or wavering sound, and should be removed periodically with a head cleaning tape. If the residue is not removed periodically, the player may need to be disassembled for cleaning.

PLAY STOP PLAY/STOP:

Push the PLAY/STOP button while the cassette tape is playing to stop the tape. Push the button again to play the tape.

1 REW 3 FF FF (fast forward), REW (rewind):

Push either the FF or REW button for the desired direction.

The FF or REW symbol illuminates in the display.

To stop the FF or REW function, press the FF or REW button again, or the PLAY/STOP button.

4 APS 6 APS APS (automatic program search) FF, APS REW:

Push either the APS FF or APS REW button while the cassette tape is playing. The tape runs quickly, stops, then plays the next selection. Either the FF or REW symbol flashes in the display while searching for the selection.

This system searches at the blank intervals between selections. If there is a blank interval within one selection or there is no interval between selections, the system may not stop in the desired or expected location.

2 PROG PROG (program):

Push the PROG button. The moving digital squares illuminate on either the right or left side of the display window to indicate the side of program play.

5 DOLBY NR Dolby NR (Noise Reduction):

Push the Dolby NR DOLBY NR button for Dolby NR encoded tapes to reduce high frequency tape noise. The DOLBY NR indicator light comes on.

Dolby NR is manufactured under license from Dolby Laboratories Licensing Corporation.

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DOLBY NR and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Metal or chrome tape usage:

The cassette player is automatically set to high performance play when playing a metal or chrome cassette tape.

Ejecting the cassette tape:

Push the EJECT button. The cassette tape automatically comes out.

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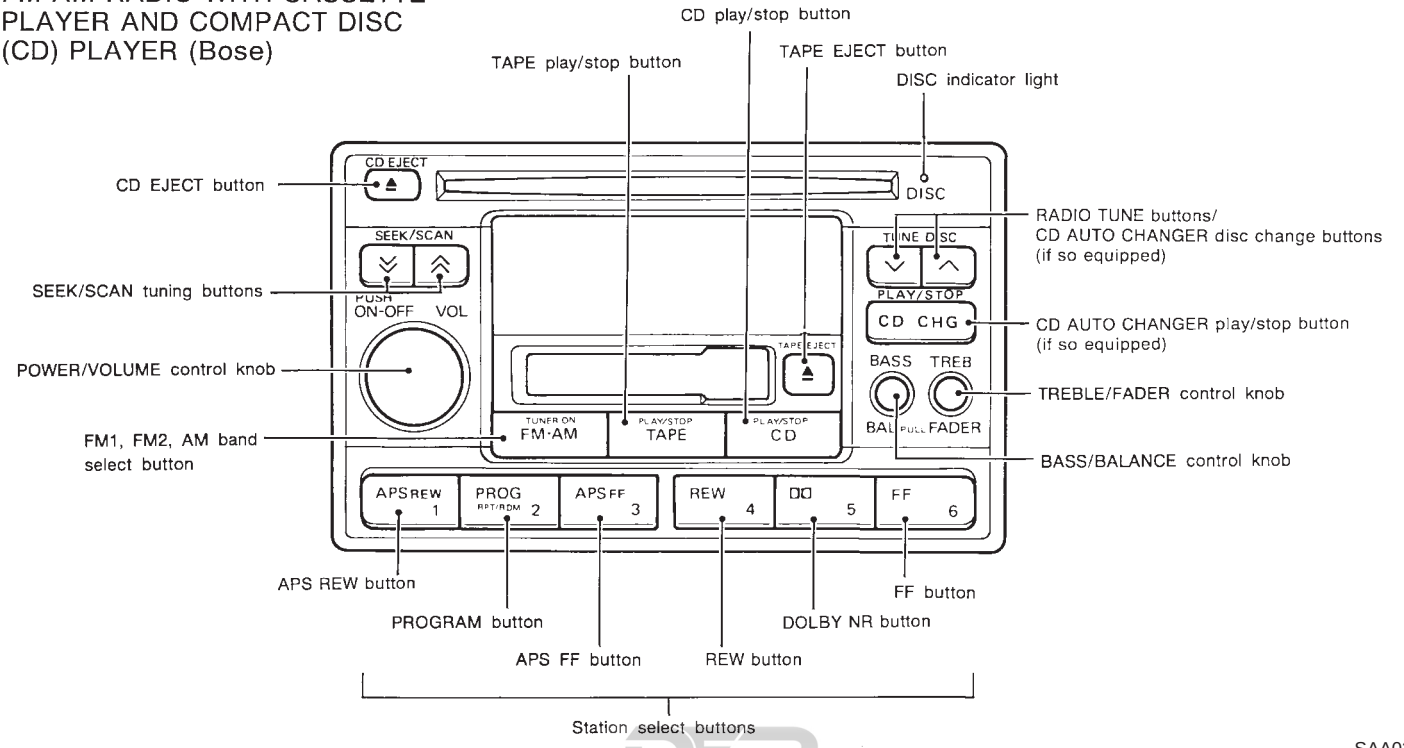
FM-AM RADIO WITH CASSETTE PLAYER AND COMPACT DISC (CD) PLAYER (Bose)



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DEP DEALER E-PROCESS

FM-AM RADIO WITH CASSETTE PLAYER AND COMPACT DISC (CD) PLAYER (Bose)

Audio main operation

Head unit

The radio has an FM diversity reception system, which employs two antennas. One is a rod type antenna; the other is an antenna printed on the window. This system automatically switches to the antenna which is receiving less noise.

The tape deck employs a permalloy head which allows for improved reproduction of high frequency ranges. Noise is also greatly reduced by the combined use of the Dolby NR (Noise Reduction) system.

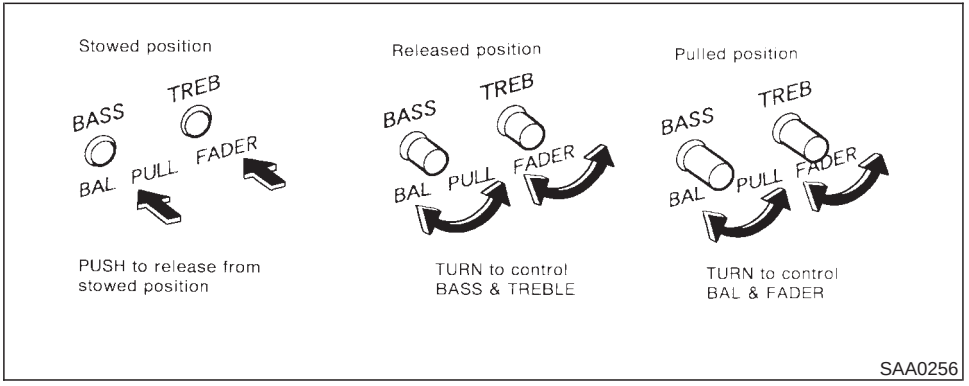
Power/Volume control:

Turn the ignition key to ACC or ON, and then push the POWER/VOLUME control knob while the system is off to call up the mode (radio, tape or CD) which was playing immediately before the system was turned off. When no CD or tape is loaded, the radio will come on. While the system is on, pushing the POWER/VOLUME control knob turns the system off.

To turn the radio off, press the POWER/VOLUME control knob.

Turn the POWER/VOLUME control knob to adjust the volume.

DEP DEALER E-PROCESS



Adjusting tone quality and speaker balance:

To adjust BASS, TREB (Treble), BAL (Balance) and FADER the control knobs must be released from their stowed positions. Pushing the knobs once moves them to the released position.

In the released position, the knobs control tone quality. Turn the control knobs to adjust BASS and TREB to the most pleasing level.

From the released position, the knobs must be pulled out in order to control BAL and FADER. BAL adjusts the sound level between the right and left speakers, and FADER adjusts the sound level between the front and rear speakers.

Once sound quality is set to the desired levels, return the control knobs to the stowed position by pushing them in completely and releasing.

FM-AM radio operation

TUNER ON FM • AM **FM·AM band select:**

Pushing the FM·AM band select button will change the band.

When FM·AM band select button is pushed while the ignition switch is in the ACC or ON, the radio will come on at the station last played.

The last station played will also come on when the power knob is turned to ON.

If a compact disc or tape is inserted when the power knob is turned to ON, the compact disc or tape will automatically be turned off and the last radio station played will come on.

The FM stereo indicator ST will glow during FM stereo reception. When the stereo broadcast signal is weak, the radio will automatically change from stereo to monaural reception.

TUNE (Tuning):

WARNING

The radio should not be tuned while driving in order that full attention may be given to the driving operation.

Use these buttons for manual tuning. To move quickly through the channels, hold either of the TUNE buttons down for more than 0.5 seconds.

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SEEK/SCAN tuning:

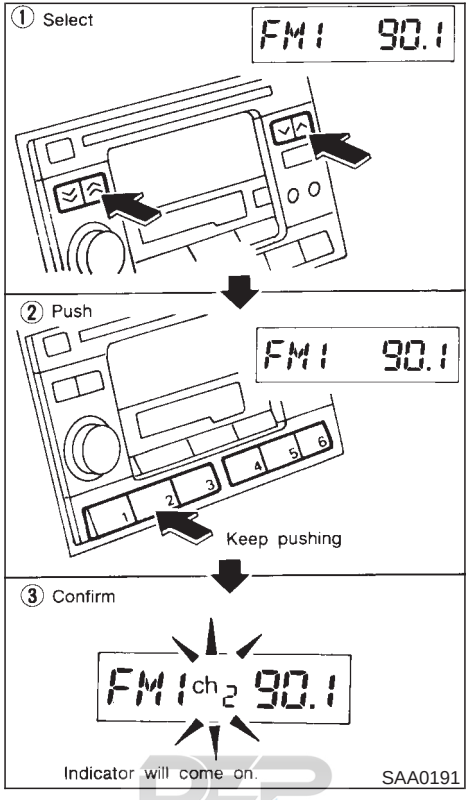
SEEK tuning:

Push the SEEK/SCAN tuning button ≫ or ≪ for less than 1.5 seconds. SEEK tuning begins from high to low or low to high frequencies and stops at the next broadcasting station.

SCAN tuning :

Push the SEEK/SCAN tuning button ≫ or ≪ for more than 1.5 seconds. SCAN tuning begins from high to low or low to high frequencies and stops at each broadcasting station for five seconds. Pushing the button again during this 5 seconds period will stop SCAN tuning and the radio will remain tuned to that station.

If the SEEK/SCAN tuning button is not pushed within 5 seconds, SCAN tuning moves to the next station.



Station memory operations:

Twelve stations can be set for the FM band.

Six stations can be set for the AM band.

1. Tune to the desired station using the SEEK/SCAN or TUNE button.
2. Push the desired station select button for more than 1.5 seconds. (For example, in the diagram ch2 is to be memorized. The radio mutes when the select button is pushed.)
3. The indicator ch2 will then come on and the sound will resume. Memorizing is now complete.
4. Other buttons can be set in the same manner.

If the battery cable is disconnected, or if the fuse blows, the radio memory will be cancelled. In that case, reset the desired stations.

Cassette tape player operation

Turn the ignition key to ACC or ON, and then lightly insert the cassette tape into the tape door. The cassette tape will be automatically pulled into the player.

The radio or CD will turn off (if it is on) and the cassette tape will begin to play.

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CAUTION

Do not force the cassette tape into the tape door. This could cause player damage.

If the system is turned off by pushing the POWER/VOLUME control knob with the cassette tape still in the player, the tape will resume playing when the system is turned back on.

Precautions on cassette tape player operation:

- **To maintain good quality sound, NISSAN recommends that you use cassette tapes of 60 minutes or shorter in length.**
- **Cassette tapes should be removed from the player when not in use. Store cassettes in their protective cases and away from direct sunlight, heat, moisture or magnetic sources.**

  Direct sunlight can cause the cassette to become deformed. The use of deformed cassettes may cause the cassette to jam in the player.
- **Do not use cassettes that have peeling or loose labels. If used, the label could jam in the player.**
- **If a cassette has loose tape, insert a pencil through one of the cassette hubs and rewind the tape firmly. Loose tape may cause jamming and wavering sound quality.**
- **Over a period of time, the playback head, capstan and pinch roller may gather a tape coating residue as the tape passes over the head. This residue accumulation can cause a weak or wavering sound and should be removed periodically with a head cleaning tape.**

  If the residue is not removed periodically, the player may need to be disassembled for cleaning.

PLAY / STOP TAPE **PLAY/STOP:**

- When this button is pushed with the system turned off and a tape loaded, the system will come on and the tape will play.
- When this button is pushed with either the radio or compact disc turned on and the tape loaded, the compact disc or the radio will automatically be turned off and the tape will play.

While the tape is playing, pushing the TAPE button stops the tape. Pushing the button again allows the tape to play.

FF 6 REW 4 **FF (Fast Forward), REW (Rewind):**

Push the FF button to fast forward the tape. To rewind the tape, push the REW button. Either the indicator light ◀◀ , ▶▶ , ◀▶▶ or ◀◀▶ will come on when the FF or REW function is started.

APSFF 3 APSREW 1 **APS (Automatic Program Search) FF, APS REW:**

When the APS FF button is pushed while the tape is being played, the next program will start to play from the beginning. Push the APS FF button several times to skip through programs. The tape will advance the number of times the button is pushed (up to nine programs).

When the APS REW button is pushed once, the program being played starts over from the beginning. Push several times to fast rewind programs. The tape will go back the number of times the button is pushed. Either the indicator light |◀◀ , ▶▶| , ◀▶▶| or |◀◀▶ will come on when the APS FF or APS REW function is started.

This system searches for the blank intervals

DEP DEALER E-PROCESS

between selections. If there is a blank interval within one program or there is no interval between programs, the system may not stop in the desired or expected location.

PROG 2 **PROG (Program):**

Push the PROG button to change the tape side while the tape is being played.

The cassette tape will automatically change directions to play the other side when the first side is completed.

5 **Dolby NR (Noise Reduction):**

Push the Dolby NR button for Dolby NR encoded tapes to reduce high frequency tape noise. The indicator will come on.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. Dolby NR and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Metal or chrome tape usage:

The cassette player will be automatically set to high performance play when playing a metal or chrome cassette tape.

TAPE EJECT:

When this button is pushed with the tape loaded, the tape will be ejected.

When the tape is ejected while it is being played, the system will be turned off.

Compact disc (CD) player operation

CAUTION

- **During cold weather or rainy days, the player may malfunction due to the humidity. If this occurs, remove the CD and dehumidify or ventilate the player completely.**
- **The player may skip while driving on rough roads.**
- **The CD player sometimes cannot function when the compartment temperature is extremely high. Decrease the temperature before use.**
- **Do not expose the CD to direct sunlight.**
- **Do not use an 8 cm CD adapter as this will cause malfunction.**

Turn the ignition key to the ACC or ON position and insert the compact disc into the slot with the label side facing up. The compact disc will be guided automatically into the slot and start playing.

After loading the disc, the number of tracks on the disc and the play time will appear on the display.

If the radio or tape is already operating, it will automatically turn off and the compact disc will play.

CAUTION

Do not force the compact disc into the slot. This could damage the player.

If the system has been turned off while the compact disc was playing, pushing the POWER/VOLUME control knob will start the compact disc.

8 cm diameter compact discs can also be used without an adapter.

PLAY / STOP C D **PLAY/STOP:**

When this button is pushed with the system off and the compact disc loaded, the system will turn on and the compact disc will start to play.

When this button is pushed with the compact disc loaded but the tape or the radio playing, the tape or radio will automatically be turned

DEP DEALER E-PROCESS

off and the compact disc will start to play.

When this button is pushed while the compact disc is playing, the compact disc will stop playing. When this button is pushed with the compact disc stopped, the compact disc will start to play.

FF 6 REW 4 **FF (Fast Forward), REW (Rewind):**

When the FF or REW button is pushed while the compact disc is being played, the compact disc will play while fast forwarding or rewinding. When the button is released, the compact disc will return to normal play speed.

APSFF 3 APSREW 1 **APS (Automatic Program Search) FF, APS REW:**

When the APS FF button is pushed while the compact disc is being played, the program next to the present one will start to play from its beginning. Push several times to skip through programs. The compact disc will advance the number of times the button is pushed. (When the last program on the compact disc is skipped through, the first program will be played.) When the APS REW button is pushed, the program being played returns to its beginning. Push several times to skip back through programs. The compact disc will go back the number of times the button is pushed.

PROG RPT/RDM 2 **PROG (Program):**

When the PROG button is pushed while the compact disc is being played, the play pattern will change as follows:

ALL: All the programs will be played repeatedly in sequence.

1: Only one program (the one being played when the PROG button is pushed) will be repeated.

RANDOM: Programs will be played at random, not following the sequence on the compact disc. The same program may be repeated twice.

(no mark): All the programs will be played in sequence and stop when the last program is finished.

When the compact disc is ejected, the play pattern will automatically change to ALL.

⏏ **CD EJECT:**

When the CD EJECT button is pushed with the compact disc loaded, the compact disc will be ejected.

When this button is pushed while the compact disc is being played, the compact disc will come out and the system will turn off.

If the compact disc comes out and is not removed, it will be pulled back into the slot to protect it. (without 8 cm diameter compact discs)

DISC indicator light:

This light comes on when the compact disc is loaded.

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ANTENNA

Manual antenna

The manual antenna cannot be shortened, but can be removed. When you need to remove the antenna, turn its base counterclockwise.

Power antenna (if so equipped)

The antenna will automatically extend when the radio is turned on, and retract when switched off. If the radio is left on, the antenna will retract and extend with the ignition key OFF-ON operation.

⚠ CAUTION

- **Before turning the radio on, make sure that there is no one near the antenna outlet and there is enough space for it to extend.**
- **To prevent damage, be sure that antenna is fully retracted before the vehicle enters an automated car wash.**
- **Dirt and other foreign matter on the power antenna rod may interrupt its operation. Clean the rod periodically with a damp cloth. This type of cleaning is especially important during the winter seasons in areas where road salt and other chemicals may be spread on road surfaces and splashed onto the antenna rod.**

CB RADIO OR CAR PHONE

When installing a CB, ham radio or a car phone in your NISSAN, be sure to observe the following cautions, otherwise the new equipment may adversely affect the MFI (Multiport Fuel Injection) system and other electronic parts.

⚠ CAUTION

- **Keep the antenna as far as possible away from the Engine Control Module.**
- **Also keep the antenna wire more than 8 in (20 cm) away from the MFI harness. Do not route the antenna wire next to any harness.**
- **Adjust the antenna standing-wave ratio as recommended by the manufacturer.**
- **Connect the ground wire from the CB radio chassis to the body.**
- **For details, consult a NISSAN dealer.**

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MEMO

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5 Starting and driving

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PRECAUTIONS WHEN STARTING AND DRIVING

⚠ WARNING

Do not leave children, unreliable adults, or pets alone in your vehicle. They could accidentally injure themselves or others through inadvertent operation of the vehicle. Also, on hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.

EXHAUST GAS (Carbon monoxide)

⚠ WARNING

Do not breathe exhaust gases; they contain colorless and odorless carbon monoxide. Carbon monoxide is dangerous. It can cause unconsciousness or death.

- **If you suspect that exhaust fumes are entering the vehicle, drive with all windows fully open, and have the vehicle inspected immediately.**
- **Do not run the engine in closed spaces such as a garage.**
- **Do not park the vehicle with the engine running for any extended length of time.**
- **Keep the trunk lid, closed while driving, otherwise exhaust gases could be drawn into the passenger compartment. If you must drive with the trunk lid open, follow these precautions:**
  1. **Open all the windows.**
  2. **Set the air recirculation switch OFF and the fan control at 4 (high) to circulate the air.**
  3. **Be sure the rear seat armrest and tray are closed.**
- **If electrical wiring or other cable connections must pass to a trailer through the seal on the trunk lid or the body, follow the manufacturer's recommendation to prevent carbon monoxide entry into the vehicle.**
- **If a special body or other equipment is added for recreational or other usage, follow the manufacturer's recommendation to prevent carbon monoxide entry into the vehicle. (Some recreational vehicle appliances such as stoves, refrigerator, heaters, etc. may also generate carbon monoxide.)**
- **The exhaust system and body should be inspected by a qualified mechanic whenever:**
  a. **The vehicle is raised for service.**
  b. **You suspect that exhaust fumes are entering into the passenger compartment.**
  c. **You notice a change in the sound of the exhaust system.**
  d. **You have had an accident involving damage to the exhaust system, underbody, or rear of the vehicle.**

THREE WAY CATALYST

The three way catalyst is an emission control device installed in the exhaust system. Exhaust gases in the converter are burned at high temperatures to help reduce pollutants.

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⚠ WARNING

- **The exhaust gas and the exhaust system are very hot. Keep people, animals or flammable materials away from the exhaust pipe.**
- **Do not stop or park the vehicle over flammable materials such as dry grass, waste paper or rags. They may ignite and cause a fire.**

⚠ CAUTION

- **Do not use leaded gasoline. Deposits from leaded gasoline seriously reduce the three way catalyst's ability to help reduce exhaust pollutants.**
- **Keep your engine tuned up. Malfunctions in the ignition, fuel injection, or electrical systems can cause overrich fuel flow into the three way catalyst, causing it to overheat. Do not keep driving if the engine misfires, or if noticeable loss of performance or other unusual operating conditions are detected. Have the vehicle inspected promptly by an authorized NISSAN dealer.**
- **Avoid driving with an extremely low fuel level. Running out of fuel could cause the engine to misfire, damaging the three way catalyst.**
- **Do not race the engine while warming it up.**
- **Do not push or tow your vehicle to start the engine.**

AVOIDING COLLISION AND ROLLOVER

⚠ WARNING

Failure to operate this vehicle in a safe and prudent manner may result in loss of control or an accident.

Be alert and drive defensively at all times. Obey all traffic regulations. Avoid excessive speed, high speed cornering, or sudden steering maneuvers, because these driving practices could cause you to lose control of your vehicle. **As with any vehicle, a loss of control could result in a collision with other vehicles or objects, or cause the vehicle to rollover, particularly if the loss of control causes the vehicle to slide sideways.** Be attentive at all times, and avoid driving when tired. Never drive when under the influence of alcohol or drugs (including prescription or over-the-counter drugs which may cause drowsiness). Always wear your seat belt. See "Seat Belts" in the "1. Seats, restraints and supplemental air bag systems" section. And also instruct your passengers to do so.

DRINKING ALCOHOL/DRUGS AND DRIVING

⚠ WARNING

Never drive under the influence of alcohol or drugs. Alcohol in the bloodstream reduces coordination, delays reaction time and impairs judgment. Driving after drinking alcohol increases the likelihood of being involved in an accident injuring yourself and others. Additionally, if you are injured in the accident, alcohol can increase the severity of the injury.

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IGNITION SWITCH

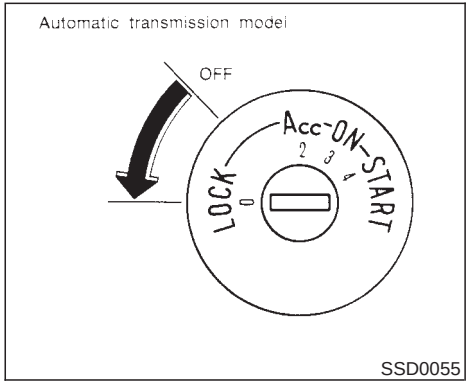
NISSAN is committed to safe driving. But, you must choose not to drive under the influence of alcohol. Every year thousands of people are injured or killed in alcohol related accidents. Although the local laws vary on what is considered to be legally intoxicated, the fact is that alcohol affects all people differently and most people underestimate the effects of alcohol.

Remember, drinking and driving don't mix!

And that's true for drugs too (over the counter, prescription, and illegal drugs). Don't drive if your ability to operate your vehicle is impaired by alcohol, drugs, or some other physical condition.

⚠ WARNING

Never remove the key while driving. If the key is removed, the steering wheel will lock. This may cause the driver to lose control of the vehicle and could result in serious vehicle damage or personal injury.



AUTOMATIC TRANSMISSION

On automatic transmission models, the ignition lock is designed so that the key cannot be turned to LOCK and removed until the selector lever is moved to the P (Park) position.

When removing the key from the ignition, make sure the selector lever is in the P (Park) position.

If the selector lever is not returned to P (Park) position, the key cannot be moved toward LOCK.

When the key cannot be turned toward the

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LOCK position, proceed as follows to remove the key:

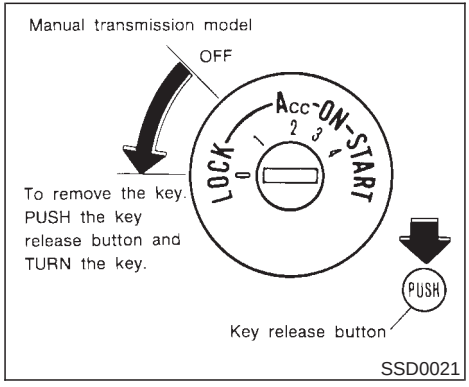
1. Move the selector lever into the P (Park) position.
2. Turn the ignition key slightly in the ON direction.
3. Turn the key toward the LOCK position.
4. Remove the key.

If the key is removed from the ignition switch, the selector lever cannot be moved from P (Park) position. **The selector lever can be moved if the ignition switch is in the ACC position. The selector lever can also be moved if the ignition switch is in the ON position and the foot brake pedal is depressed.**

There is an OFF position in between LOCK and ACC, although it does not show on the lock cylinder. When the ignition is in OFF the steering wheel is not locked.

In order for the steering wheel to be locked, it must be turned about 1/6 of a turn counterclockwise from the straight up position.

To lock the steering wheel, remove the key. To unlock the steering wheel, insert the key and turn it gently while rotating the steering wheel slightly right and left.



MANUAL TRANSMISSION

On manual transmission models, to turn the ignition key to LOCK from ACC or ON, turn the key to OFF and press in the key release button, then turn the key to LOCK.

In order for the steering wheel to be locked, it must be turned about 1/6 of a turn counterclockwise from the straight up position.

To lock the steering wheel, remove the key. To unlock the steering wheel, insert the key and turn it gently while rotating the steering wheel slightly right and left.

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KEY POSITIONS

The switch includes an anti-theft steering lock device.

LOCK (Normal parking position) (0)

The ignition key can only be removed when the switch is in this position.

OFF (1)

The engine can be turned off without locking the steering wheel.

ACC (Accessories) (2)

This position activates electrical accessories such as the radio when the engine is not running.

ON (Normal operating position) (3)

This position turns on the ignition system and the electrical accessories.

START (4)

This position activates the starter motor, starting the engine.

BEFORE STARTING THE ENGINE

- Make sure the area around the vehicle is clear.
- Maintenance items listed here should be checked periodically, e.g., each time you check engine oil.
- Check that all windows and lights are clean.
- Visually inspect tires for their appearance and condition. Also check tires for proper inflation.
- Lock all doors.
- Position seat and adjust head restraints.
- Adjust inside and outside mirrors.
- Fasten seat belts and ask all passengers to do likewise.
- Check the operation of warning lights when key is turned to the ON (3) position.

STARTING THE ENGINE

1. Apply the parking brake.
2. **Automatic transmission:**

   Move the selector lever to P (Park) or N (Neutral). (P preferred.)

   The selector lever cannot be moved out of P (Park) position and into any of the other gear positions if the key is removed from the switch.

   The starter is designed not to operate if the selector lever is in one of the driving positions.

   Manual transmission:

   Move the shift lever to N (Neutral) position, and depress the clutch pedal to the floor while cranking the engine.

   The starter is designed not to operate unless the clutch pedal is depressed.
3. Crank the engine **with your foot off the accelerator pedal** by turning the ignition key to START. Release the key when the engine starts. If the engine starts, but fails to run, repeat the above procedure.

   - **If the engine is very hard to start in extremely cold or hot weather, depress the accelerator pedal and hold it to help start the engine.**

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- **In the summer, when restarting the engine within 30 minutes after it has been stopped, keep the accelerator pedal fully depressed while starting.**

⚠ CAUTION

Do not operate the starter for more than 10 seconds at a time. If the engine does not start, turn the key off and wait 10 seconds before cranking again, otherwise the starter could be damaged.

4. **Warm-up**

   Allow the engine to idle for at least 30 seconds after starting. Drive at moderate speed for a short distance first, especially in cold weather.

AUTOMATIC TRANSMISSION

The automatic transmission in your vehicle is electronically controlled by a transmission control module to produce maximum power and smooth operation.

Shown on the following pages are the recommended operating procedures for this transmission. Follow these procedures for maximum vehicle performance and driving enjoyment.

Starting the vehicle

After starting the engine, fully depress the foot brake pedal and push the selector lever button before shifting the selector lever to the R, N, D, 2 or 1 position. Be sure the vehicle is fully stopped before attempting to shift the selector lever.

This automatic transmission is designed so that the foot brake pedal must be depressed before shifting from P (Park) position to any drive position while the ignition switch is ON.

The selector lever cannot be moved out of P (Park) position and into any of the other gear positions if the key is removed from the switch.

1. Keep the foot brake pedal depressed and shift into a driving gear.
2. Release the parking brake and foot brake, then gradually start the vehicle in motion.

⚠ WARNING

- **Do not depress the accelerator pedal while shifting from P or N to R, D, 2 or 1. Always depress the brake pedal until shifting is completed. Failure to do so could cause you to lose control and have an accident.**
- **Cold engine idle speed is high, so use caution when shifting into a forward or reverse gear before the engine has warmed up.**
- **On slippery roads, do not downshift. This may cause a loss of control.**
- **Never shift to P or R while vehicle is moving. This could cause an accident.**

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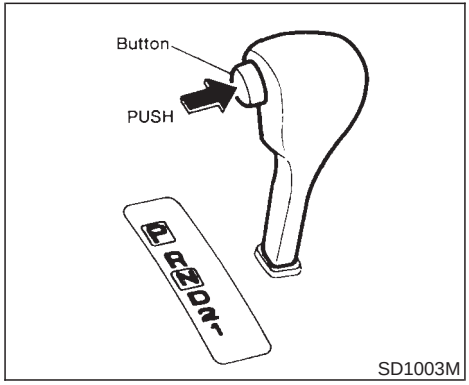
⚠ CAUTION

When stopping the vehicle on an uphill grade, do not hold the vehicle by depressing the accelerator pedal. The foot brakes should be used for this purpose.



SD1003M

Shifting

Push the button to shift into P, R or from D to 2. All other positions can be selected without pushing the button.

P (Park):

Use this selector position when the vehicle is parked or when starting the engine. Always be sure the vehicle is at a complete stop. For maximum safety, depress the brake pedal, then push in the select lever button and move the lever to the P (Park) position. Apply the parking brake. When parking on a hill, apply the parking brake first, then shift the lever into the P (Park) position.

R (Reverse):

Use this position to back up. Always be sure the vehicle is completely stopped. With the brake pedal depressed, push in the select lever button and move the lever to the R (Reverse) position

N (Neutral):

Neither forward nor reverse gear is engaged. The engine can be started in this position. You may shift to N (Neutral) position and restart a stalled engine while the vehicle is moving.

D (Drive):

Use this position for all normal forward driving.

2 (Second gear):

Use for hill climbing or engine braking on downhill grades.

Do not exceed 73 MPH (117 km/h) in the 2 (Second gear) position.

1 (Low gear):

Use this position when climbing steep hills slowly or driving slowly through deep snow, sand or mud, or for maximum engine braking on steep downhill grades.

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Do not exceed 40 MPH (65 km/h) in the 1 (Low gear) position.

Shifting from P (Park)

If the ignition switch is in the ON position and the foot brake pedal is depressed, but the selector lever still cannot be moved out of P (Park) position, follow these instructions:

1. Shut the engine off and remove the key.
2. Apply the parking brake.
3. Reinsert the ignition key and turn it clockwise to the ACC position.
4. Depress the brake pedal, move the selector lever to N (Neutral) position and start the engine.
5. Check stop light operation.

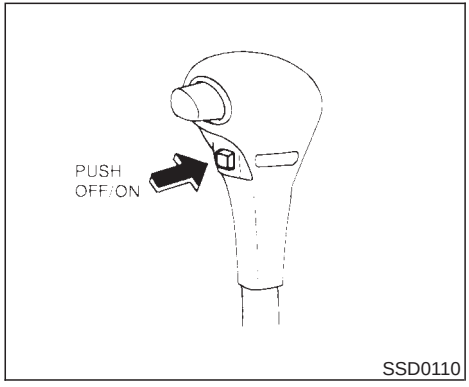
⚠ WARNING

If the selector lever cannot be moved from the P (Park) position while the engine is running and the brake pedal depressed, the stop lights may not work. Malfunctioning stop lights could cause an accident injuring yourself and others.

These instructions for starting the vehicle in N (Neutral) position should only be used until service can be obtained. Never drive the vehicle if the stop lights are not operating properly.

Accelerator downshift — In D position —

For rapid passing or hill climbing, fully depress the accelerator pedal to the floor. This shifts the transmission down into second gear or first gear, depending on the vehicle speed.



SSD0110

Overdrive switch

Each time your vehicle is started, the transmission is automatically reset to overdrive ON.

ON: For normal driving the overdrive switch is engaged. The transmission is upshifted into overdrive as the vehicle speed increases.

The overdrive does not engage until the engine has warmed up.

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OFF: Changed for driving up and down long slopes where engine braking would be advantageous, push the overdrive switch. The O/D OFF light illuminates. When cruising at a low speed or climbing a gentle slope, you may feel uncomfortable shift shocks as the transmission shifts between third and overdrive repeatedly. In this case, press the overdrive switch. The O/D OFF indicator light comes on at this time.

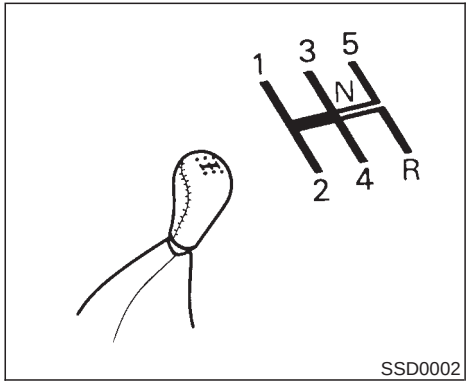
When driving conditions change, press the overdrive switch again. The O/D OFF indicator light goes out.

Remember not to drive at high speeds for extended periods of time with the O/D OFF light illuminated. This reduces the fuel economy.

Fail-safe

When the fail-safe operation occurs, the next time the key is turned to the ON position, the O/D OFF light will blink for approximately 8 seconds after coming on for 2 seconds. While the vehicle can be driven under these circumstances please note that the gears in the automatic transmission will be locked in third gear.

If the vehicle is driven under extreme conditions, such as excessive wheel spinning and subsequent hard braking, the fail-safe system may be activated. This will occur even if all electrical circuits are functioning properly. In this case, turn the ignition key OFF and wait for 3 seconds. Then turn the key back to the ON position. The vehicle should return to its normal operating condition. If it does not return to its normal operating condition, have your NISSAN dealer check the transmission and repair if necessary.



MANUAL TRANSMISSION

Shifting

To change gears, fully depress the clutch pedal, then move the shift lever. After shifting, release the clutch slowly.

On the five-speed transmission model, you cannot shift directly from fifth gear into the R (Reverse) position. First shift into the N (Neutral) position, then into the R (Reverse) position.

If it is difficult to move the shift lever into R (Reverse) or 1 (Low gear), shift into N (Neutral), then release the clutch pedal and shift

DEP DEALER E-PROCESS

into R (Reverse) or 1 (Low gear) again.

⚠ WARNING

- **Do not downshift abruptly on slippery roads. This may cause a loss of control.**
- **Do not over-rev the engine when shifting to a lower gear. This may cause a loss of control or engine damage.**

⚠ CAUTION

- **Do not rest your foot on the clutch pedal while driving. This may cause clutch damage.**
- **Stop your vehicle completely before shifting into R (Reverse).**
- **When the vehicle is stopped for a duration, for example at a stop light, shift to N (Neutral) and release the clutch pedal with the foot brake applied.**

Suggested up-shift speeds

Shown below are suggested vehicle speeds for shifting into a higher gear. These suggestions relate to fuel economy and vehicle performance. Actual up-shift speeds will vary according to road conditions, the weather and individual driving habits.

For normal acceleration in low altitude areas [less than 4,000 ft (1,219 m)]:

Gear change	ACCEL shift point MPH (km/h)	CRUISE shift point MPH (km/h)
1st to 2nd	13 (24)	13 (24)
2nd to 3rd	23 (40)	16 (29)
3rd to 4th	33 (58)	27 (48)
4th to 5th	39 (64)	36 (63)

For quick acceleration when the engine is cold or in high altitude areas [over 4,000 ft (1,219 m)]:

Gear change	MPH (km/h)
1st to 2nd	15 (24)
2nd to 3rd	25 (40)
3rd to 4th	40 (64)
4th to 5th	45 (72)

Suggested maximum speed in each gear

Downshift to a lower gear if the engine is not running smoothly, or if you need to accelerate.

Do not exceed the maximum suggested speed (shown below) in any gear. For level road driving, use the highest gear suggested for that speed. Always observe posted speed limits, and drive according to the road conditions, which will ensure safe operation. Do not over-rev the engine when shifting to a lower gear as it may cause engine damage or loss of vehicle control.

Gear	MPH (km/h)
1st	30 (50)
2nd	55 (90)
3rd	80 (130)
4th	—
5th	—

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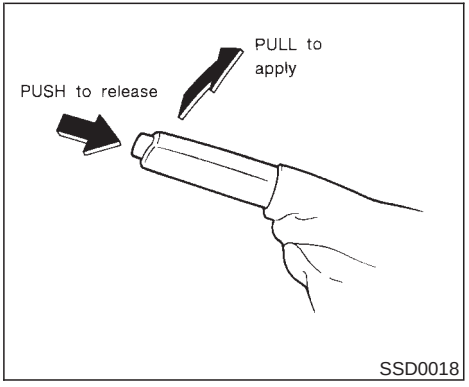
PARKING BRAKE



To apply: pull the lever up.

To release:

1. Firmly apply foot brake.
2. **Automatic transmission models:**

   Move the selector lever to the P (Park) position.

   Manual transmission models:

   Place the shift lever in the N (Neutral) position.
3. While pulling up on the lever slightly, push the button and lower completely.
4. Before driving, be sure the brake warning light goes out.

⚠ WARNING

- **Be sure the parking brake is fully released before driving. Failure to do so can cause brake failure and lead to an accident.**
- **Do not release the parking brake from outside the vehicle.**
- **Do not use the gear shift in place of the parking brake. When parking, be sure the parking brake is fully engaged.**
- **Do not leave children unattended in a vehicle. They could release the parking brake and cause an accident.**

CRUISE CONTROL

⚠ WARNING

Do not use the cruise control when driving under the following conditions:

- **it is not possible to keep the vehicle at a set speed.**
- **in heavy traffic or in traffic that varies in speed.**
- **on winding or hilly roads.**
- **on slippery roads (rain, snow, ice, etc.).**
- **in very windy areas.**

Doing so could cause a loss of vehicle control and result in an accident.

⚠ CAUTION

On manual transmission models, do not shift into N (Neutral) without depressing the clutch pedal when the cruise control is on. This could cause engine damage. If this happens, depress the clutch pedal and turn the main switch off immediately.

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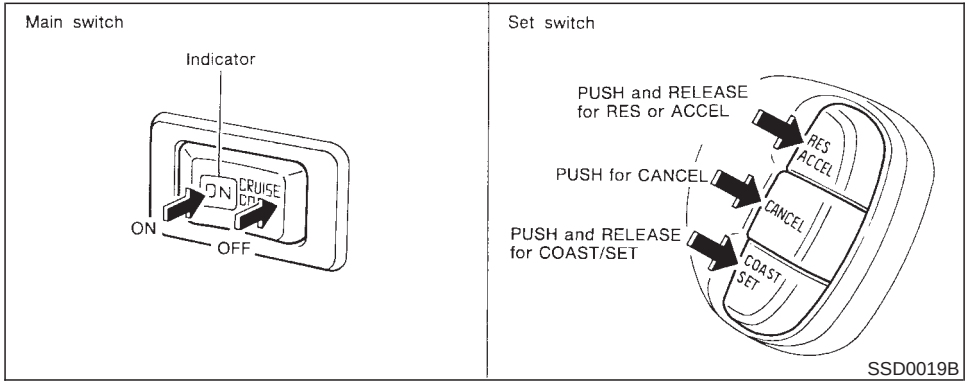
PRECAUTIONS ON CRUISE CONTROL

- If the cruise control system malfunctions, it cancels automatically. The cruise indicator light in the instrument panel then blinks to warn the driver.
- If the cruise indicator light blinks, turn the cruise control main switch off and have the system checked by your NISSAN dealer.
- The cruise indicator light may blink when the cruise control main switch is turned on while pushing the RES/ACCEL, COAST/SET, or CANCEL switch (located on the steering wheel). To properly set the cruise control system, perform the preceding steps in the order indicated.



CRUISE CONTROL OPERATIONS

The cruise control allows driving at a speed between 30 to 89 MPH (48 to 144 km/h) without keeping your foot on the accelerator pedal.

To turn on the cruise control, push the main switch on. The indicator light on the switch will come on.

To set at cruising speed, accelerate your vehicle to the desired speed, push the COAST/SET switch and release it. (The CRUISE light will come on.) Take your foot off the accelerator pedal. Your vehicle will maintain the set speed.

- **To pass another vehicle,** depress the accelerator pedal. When you release the pedal, the vehicle will return to the previously set speed.
- The vehicle may not maintain the set speed when going up or down steep hills. If this happens, drive without the cruise control.

To cancel the preset speed, follow either of these three methods:

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a) Push the cancel switch; The CRUISE light will go out.

b) Tap the brake pedal; The CRUISE light will go out.

c) Turn the main switch off. Both the ON indicator and CRUISE lights will go out.

- If you depress the brake pedal while pushing the RES/ACCEL set switch and reset at the cruising speed, turn the main switch off once and then turn it on again.
- The cruise control will automatically be cancelled if the vehicle slows down below approximately 8 MPH (13 km/h).
- Depress the clutch pedal (manual transmission), or move the selector lever to N (Neutral) position (automatic transmission). The CRUISE light will go out.

To reset at a faster cruising speed, use one of the following three methods:

a) Depress the accelerator pedal. When the vehicle attains the desired speed, push and release the COAST/SET switch.

b) Push and hold the RES/ACCEL set switch. When the vehicle attains the speed you desire, release the switch.

c) Push, then quickly release the RES/ACCEL set switch. Each time you do this, the set speed will increase by about 1 MPH (1.6 km/h).

To reset at a slower cruising speed, use one of the following three methods:

a) Lightly tap the brake pedal. When the vehicle attains the desired speed, push the COAST/SET switch and release it.

b) Push and hold the COAST/SET switch. Release the switch when the vehicle slows down to the desired speed.

c) Push, then quickly release the COAST/SET switch. Each time you do this, the set speed will decrease by about 1 MPH (1.6 km/h).

To resume the preset speed, push and release the RES/ACCEL set switch. The vehicle will resume the last set cruising speed when the vehicle speed is over 30 MPH (48 km/h).

BREAK-IN SCHEDULE

During the first 1,000 miles (1,600 km), follow these recommendations for the future reliability and economy of your new vehicle. Failure to follow these recommendations may result in vehicle damage or shortened engine life.

- Do not drive over 55 MPH (90 km/h) and do not run the engine over 4,000 rpm. Avoid driving for long periods at constant speed, either fast or slow.
- Do not accelerate at full throttle in any gear.
- Avoid quick starts.
- Avoid hard braking as much as possible.
- Do not tow a trailer for the first 500 miles (800 km).

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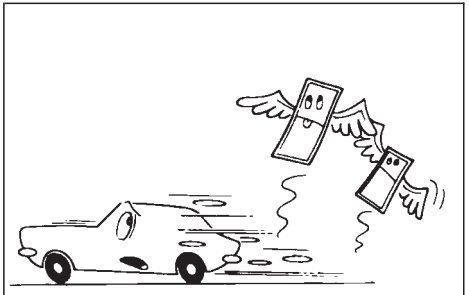
INCREASING FUEL ECONOMY



Abrupt starts and stops waste fuel and money.

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- Accelerate slowly and smoothly. Maintain cruising speeds with a constant accelerator position.
- Drive at moderate speeds on the highway. Driving at high speed will lower fuel economy.
- Avoid unnecessary stopping and braking. Maintain a safe distance behind other vehicles.
- Use a proper gear range which suits road conditions. On level roads, shift into high gear as soon as possible.
- Avoid unnecessary engine idling.
- Keep your engine tuned up.
- Follow the recommended periodic maintenance schedule.
- Keep the tires inflated at the correct pressure. Low pressure will increase tire wear and waste fuel.
- Keep the front wheels in correct alignment. Improper alignment will cause not only tire wear but also lower fuel economy.
- Air conditioner operation lowers fuel economy. Use the air conditioner only when necessary.
- When cruising at highway speeds, it is more economical to use the air conditioner and leave the windows closed to reduce drag.

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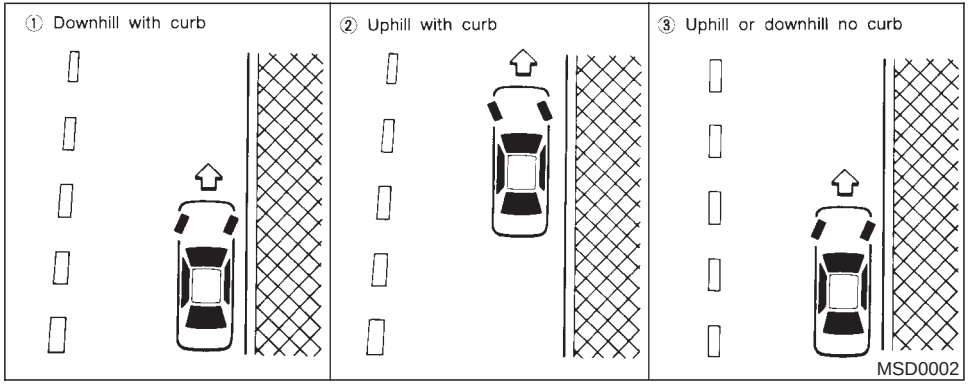
PARKING/PARKING ON HILLS



⚠WARNING

Do not park the vehicle over flammable materials such as dry grass, waste paper or rags. They may ignite and cause a fire.

1. Firmly apply the parking brake.
2. **Automatic transmission models:**

   Move the selector lever to the P (Park) position.

   Manual transmission models:

   Place the shift lever in the R (Reverse) position. When parking on an uphill grade, place the shift lever in the 1 (Low gear) position.

⚠WARNING

- **Safe parking procedures require that both the parking brake be set and the transmission placed into P (Park) for automatic transmission models or in an appropriate gear for manual transmission models. Failure to do so could cause the vehicle to move unexpectedly or roll away and result in an accident.**
- **Make sure the automatic transmission selector lever has been pushed as far forward as it can go and cannot be moved without depressing the button at the end of the lever.**

3. To help prevent the vehicle from rolling into the street when parked on a sloping drive way, it is a good practice to turn the wheels as illustrated.

- HEADED DOWNHILL WITH CURB: ①

  Turn the wheels into the curb and move the vehicle forward until the curb side wheel gently touches the curb.

- HEADED UPHILL WITH CURB: ②

  Turn the wheels away from the curb and move the vehicle back until the curb side wheel gently touches the curb.

- HEADED UPHILL OR DOWNHILL, NO CURB: ③

  Turn the wheels toward the side of the road so the vehicle will move away from the center of the road if it moves.

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4. Turn the ignition key to the LOCK position and remove the key.

⚠ WARNING

- **Never leave the engine running while the vehicle is unattended.**
- **Never leave children unattended in the vehicle.**

POWER STEERING

The power assisted steering is designed to use a hydraulic pump, driven by the engine, to assist steering.

If the engine stops or drive belt breaks, you will still have control of the vehicle. However, much greater steering effort is needed, especially in sharp turns or at low speeds.

⚠ WARNING

If the engine is not running or is turned off while driving, the power assist for the steering will not work. Steering will be much harder to operate.

BRAKE SYSTEM

The brake system has two separate hydraulic circuits. If one circuit develops a problem, you will still have braking at two wheels.

Vacuum assisted brake

The brake booster aids braking by using engine vacuum. If the engine stops, you can stop the vehicle by depressing the brake pedal. However, greater foot pressure on the brake pedal will be required to stop the vehicle and the stopping distance will be longer.

Wet brakes

When the vehicle is washed or driven through water, the brakes may get wet. As a result, your braking distance will be longer and the vehicle may pull to one side during braking.

To dry brakes, drive the vehicle at a safe speed while lightly pressing the brake pedal to heat-up the brakes. Do this until the brakes return to normal. Avoid driving the vehicle at high speeds until the brakes function correctly.

Using the brakes

Avoid resting your foot on the brake pedal while driving. This overheats the brakes, increases wear on the brake linings and pads, and reduces gas mileage.

To help save the brakes and to prevent the brakes from overheating, reduce speed and

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downshift to a lower gear before going down a slope or long grade. Overheated brakes may reduce braking performance and could result in loss of vehicle control.

⚠WARNING

- **While driving on a slippery surface, be careful when braking, accelerating or downshifting. Abrupt braking or accelerating could cause the wheels to skid and result in an accident.**
- **If the engine is not running or is turned off while driving, the power assist for the brakes will not work. Braking will be harder.**

ANTI-LOCK BRAKE SYSTEM (ABS) (if so equipped)

The anti-lock brake system controls the brakes at each wheel so the wheels will not lock when braking abruptly or when braking on slippery surfaces. The system detects the rotation speed at each wheel and varies the brake fluid pressure to prevent each wheel from locking and sliding. By preventing wheel lockup, the system helps the driver maintain steering control and helps to minimize swerving and spinning on slippery surfaces.

Using the system

Depress the brake pedal and hold it down.

⚠WARNING

Do not pump the brake pedal. Doing so may result in increased stopping distances.

Normal operation

The anti-lock brake system will not operate at speeds below 3 to 6 MPH (5 to 10 km/h) to completely stop the vehicle. (The speeds will vary according to road conditions.) When the anti-lock system senses that one or more wheels are close to locking up, the actuator (under the hood) rapidly applies and releases hydraulic pressure (like pumping the brakes very quickly). While the actuator is working, you may feel a pulsation in the brake pedal and hear a noise or vibration from the actuator under the hood. This is normal and indicates that the anti-lock system is working properly. However, the pulsation may indicate that road conditions are hazardous and extra care is required while driving.

Self-test feature

The anti-lock brake system consists of electronic sensors, electric pumps, and hydraulic solenoids controlled by a computer. The computer has a built-in diagnostic feature that tests the system each time you start the engine and move the vehicle at a low speed in forward or reverse. When the self-test occurs, you may hear a clunk noise and/or feel a pulsation in the brake pedal. This is normal and is not an indication of any malfunction. If the computer senses any malfunction, it switches the anti-lock brake system OFF and turns on the ABS warning light in the dashboard. The brake system will then behave normally, but without anti-lock assistance.

If the light comes on during the self check, or while you are driving, you should take your vehicle to your NISSAN dealer for repair at your earliest convenience.

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⚠ WARNING

The anti-lock brake system is a sophisticated device, but it cannot prevent accidents resulting from careless or dangerous driving techniques. It can help maintain vehicle control during braking on slippery surfaces, but remember that the stopping distance on slippery surfaces will be longer than on normal surfaces, even with the anti-lock system. Stopping distances may also be longer on rough, gravel or snow covered roads, or if you are using tire chains. Always maintain a safe distance from the vehicle in front of you. Ultimately, the responsibility for safety of self and others rests in the hands of the driver.

Tire type and condition of tires may also affect braking effectiveness.

- **When replacing tires, install the specified size of tires on all four wheels.**
- **When installing a spare tire, make sure it is the proper size and type as specified on the tire placard. See "Vehicle identification" in the "10. Technical and consumer information" section for tire placard location.**

FREEING A FROZEN DOOR LOCK

To prevent a door lock from freezing, apply de-icer or glycerin to it through the key hole. If the lock becomes frozen, heat the key before inserting it into the key hole.

ANTI-FREEZE

In the winter when it is anticipated that the temperature will drop below 32°F (0°C), check anti-freeze (ethylene glycol base) to assure proper winter protection. For additional information, see "Engine Cooling System" in the "8. Do-it-yourself" section.

BATTERY

If the battery is not fully charged during extremely cold weather conditions, the battery fluid may freeze and damage the battery. To maintain maximum efficiency, the battery should be checked regularly. For additional information, see "Battery" in the "8. Do-it-yourself" section.

DRAINING OF COOLANT WATER

If the vehicle is to be left outside without anti-freeze, drain the cooling system by opening the drain valves located under the radiator and on the engine block. Refill before operating the vehicle. See "Engine cooling system" in

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the “8. Do-it-yourself” section for changing engine coolant.

TIRE EQUIPMENT

1. SUMMER tires are of a tread design to provide superior performance on dry pavement. However, the performance of these tires will be substantially reduced in snowy and icy conditions. If you operate your vehicle on snowy or icy roads, NISSAN recommends the use of MUD & SNOW or ALL SEASON tires on all four wheels. Please consult your NISSAN dealer for the tire type, size, speed rating and availability information.
2. For additional traction on icy roads, studded tires may be used. However, some provinces and states prohibit their use. Check local, state and provincial laws before installing studded tires.

Skid and traction capabilities of studded snow tires, on wet or dry surfaces, may be poorer than that of non-studded snow tires.

3. Tire chains may be used if desired. Make sure they are of proper size for the tires on your vehicle and are installed according to the chain manufacturer’s suggestions. Use of tire chains may be prohibited according to location. Check the local laws before installing tire chains. When installing tire chains, make sure they are of proper size for the tires on your vehicle and are installed according to the chain manufacturer’s suggestions. **Use only SAE Class S chains.** Other types may damage your vehicle. Use chain tensioners when recommended by the tire chain manufacturer to ensure a tight fit. Loose end links of the tire chain must be secured or removed to prevent the possibility of whipping action damage to the fenders or underbody. If possible, avoid fully loading your vehicle when using tire chains. In addition, drive at a reduced speed. Otherwise, your vehicle may be damaged and/or vehicle handling and performance may be adversely affected.

   Never install tire chains on a T-type spare tire. Do not use tire chains on dry roads.

SPECIAL WINTER EQUIPMENT

It is recommended that the following items be carried in the vehicle during winter:

- a scraper and stiff-bristled brush to remove ice and snow from the windows and wiper blades.
- a sturdy, flat board to be placed under the jack to give it firm support.
- a shovel to dig the vehicle out of snowdrifts.
- extra window washer fluid to refill the reservoir tank.

DRIVING ON SNOW OR ICE

⚠ WARNING

- **Wet ice (32°F, 0°C and freezing rain), very cold snow or ice can be slick and very hard to drive on. The vehicle will have a lot less traction or grip under these conditions. Try to avoid driving on wet ice until the road is salted or sanded.**
- **Whatever the condition, drive with caution. Accelerate and slow down with care. If accelerating or downshifting too fast, the drive wheels will lose even more traction.**
- **Allow more stopping distance under these conditions. Braking should be started sooner than on dry pavement.**
- **Allow greater following distances on slippery roads.**
- **Watch for slippery spots (glare ice).**

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These may appear on an otherwise clear road in shaded areas. If a patch of ice is seen ahead, brake before reaching it. Try not to brake while actually on the ice, and avoid any sudden steering maneuvers.

- **Do not use cruise control on slippery roads.**
- **Snow can trap dangerous exhaust gases under your vehicle. Keep snow clear of the exhaust pipe and from around your vehicle.**

ENGINE BLOCK HEATER (if so equipped)

An engine block heater to assist extreme cold temperature starting is available through your NISSAN dealer.

⚠ WARNING

Do not use your heater with an ungrounded electrical system or two-pronged (cheater) adapters. You can be injured by an electrical shock if you use an ungrounded connection.

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MEMO

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6 In case of emergency

Flat tire 6-2
Jump starting..... 6-7
Push starting 6-9
If your vehicle overheats..... 6-9
Towing your vehicle 6-10

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CHANGING A FLAT TIRE

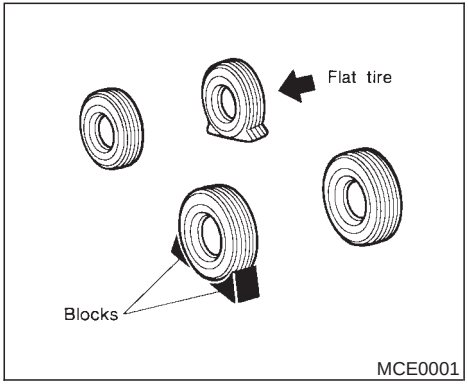
If you have a flat tire, follow the instructions below.

Stopping the vehicle

1. Safely move the vehicle off the road away from traffic.
2. Turn on the hazard warning flashers.
3. Park on a level surface and apply the parking brake. Shift the manual transmission into R (Reverse) position (automatic transmission in P (Park) position).
4. Turn off the engine.
5. Raise the hood to warn other traffic, and to signal professional road assistance personnel that you need assistance.
6. Have all passengers get out of the vehicle and stand in a safe place, away from traffic and clear of the vehicle.

⚠WARNING

- **Make sure that the parking brake is securely applied and the manual transmission is shifted into R (Reverse), or the automatic transmission into P (Park).**
- **Never change tires when the vehicle is on a slope, ice or slippery areas. This is hazardous.**
- **Never change tires if oncoming traffic is close to your vehicle. Wait for professional road assistance.**



Blocking wheels

Place suitable blocks at both the front and back of the wheel diagonally opposite the flat tire to prevent the vehicle from rolling when it is jacked up.

⚠WARNING

Be sure to block the wheel as the vehicle may move and could cause personal injury.

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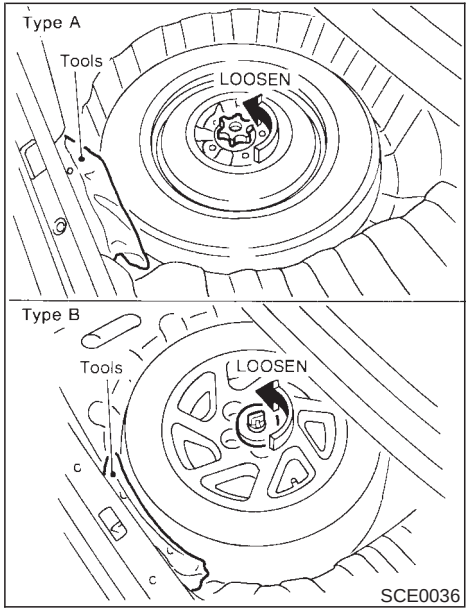
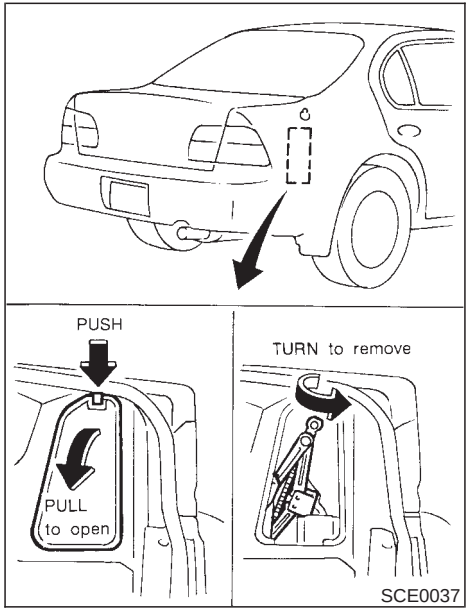
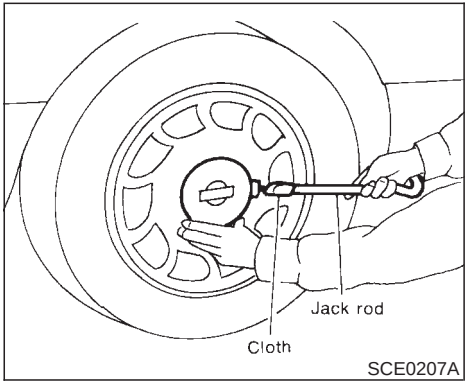


Getting the spare tire and tools

Remove jacking tools and spare tire from the storage area located inside the trunk as illustrated.





Removing wheel cover

CAUTION

Do not use your hands to pry off wheel caps. Doing so could result in personal injury.

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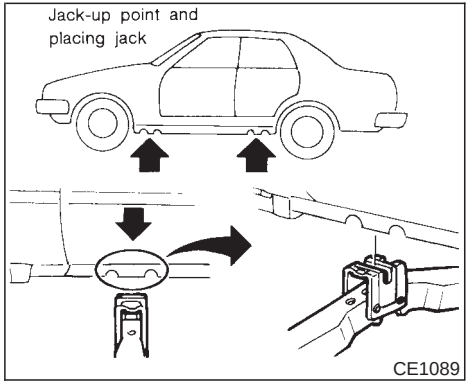

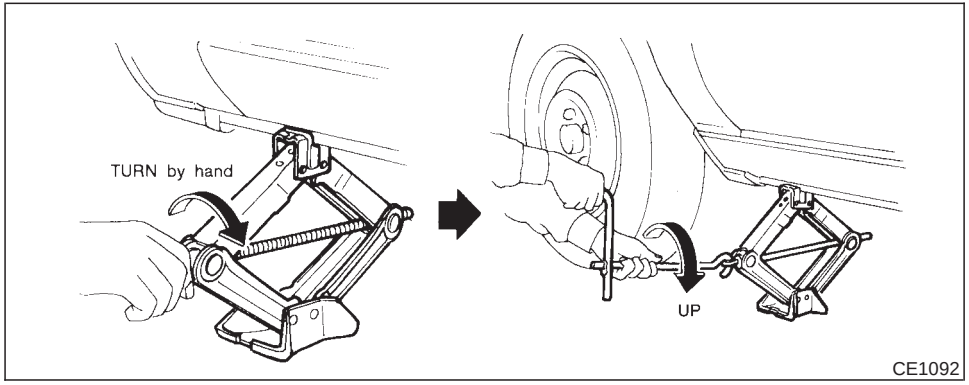

Jacking up vehicle and removing the damaged tire

Carefully read the caution label attached to the jack body and the following instructions.

1. Place the jack directly under the jack-up point as illustrated above so that top of the jack contacts the vehicle at the jack up point. Align the jack head between the two notches in the front or the rear as shown. Also fit the groove of the jack head between the notches as shown.

The jack should be used on level firm ground.

2. Loosen each wheel nut one or two turns by turning counterclockwise with the wheel nut wrench. **Do not remove the wheel nuts until the tire is off the ground.**
3. Carefully raise the vehicle until the tire clears the ground. To lift the vehicle, securely hold the jack lever and rod with both hands as shown above. Remove the wheel nuts, and then remove the tire.

⚠ WARNING

- **Never get under the vehicle while it is supported only by the jack.**
- **Use only the jack provided with your vehicle. Do not use the jack provided with your vehicle on other vehicles. The jack is designed only for lifting your vehicle during a tire change.**
- **Use the correct jack up points; never use any other part of the vehicle for jack support.**

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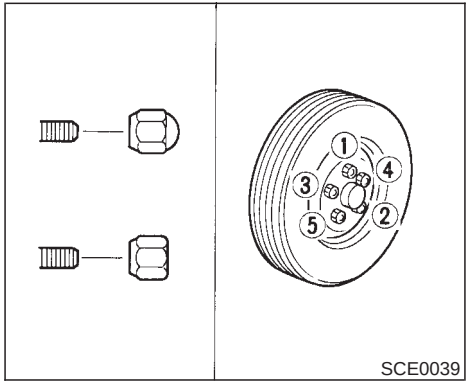
- **Never jack up the vehicle more than necessary.**
- **Never use blocks on or under the jack.**
- **Do not start or run engine while vehicle is on the jack, as it may cause the vehicle to move. This is especially true for vehicles with limited slid differential carriers.**
- **Do not allow passengers to stay in the vehicle while it is on the jack.**



Installing the spare tire

1. Clean any mud or dirt from the surface between the wheel and hub.
2. Carefully put the wheel on and tighten the wheel nuts finger tight.
3. With the wheel nut wrench, tighten wheel nuts alternately and evenly until they are tight.
4. Lower the vehicle slowly until the tire touches the ground. Then, with the wheel nut wrench, tighten the wheel nuts securely in the sequence as illustrated.

WARNING

- **Incorrect wheel nuts or improperly tightened wheel nuts can cause the wheel to become loose or come off. This could cause an accident.**
- **Do not use oil or grease on the wheel studs or nuts. This could cause the nuts to become loose.**

As soon as possible tighten the wheel nuts to the specified torque with a torque wrench.

Wheel nut tightening torque:

72 to 87 ft-lb
(98 to 118 N·m)

Adjust tire pressure to the COLD pressure.

COLD pressure:

After vehicle has been parked for three hours or more or driven less than 1 mile (1.6 km).

COLD tire pressures are shown on the tire placard affixed to the center console lid.

Retighten the wheel nuts when the vehicle

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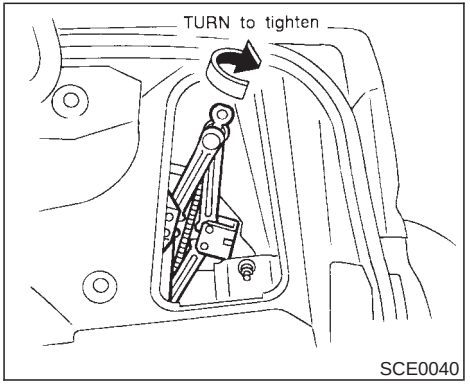
has been run for 600 miles (1,000 km) after installing the aluminum wheel.



Stowing the damaged tire and tools

Securely store the spare tire and jacking equipment in the vehicle.

⚠WARNING

- **Always make sure that the spare tire and jacking equipment are properly secured after use. Such items can become dangerous projectiles in an accident or sudden stop.**
- **The T-type spare tire and small size spare tire are designed for emergency use. See “Tires and wheels” in the “8. Do-it-yourself” section.**

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JUMP STARTING

To start your engine with a booster battery, the instructions and precautions below must be followed.

⚠WARNING

- **If done incorrectly, jump starting can lead to a battery explosion, resulting in severe injury or death. It could also damage your vehicle.**
- **Explosive hydrogen gas is always present in the vicinity of the battery. Keep all sparks and flames away from the battery.**
- **Do not allow battery fluid to come into contact with eyes, skin, cloth or painted surfaces. Battery fluid is a corrosive sulphuric acid solution which can cause severe burns. If the fluid should come into contact with anything, immediately flush the contacted area with water.**
- **Keep battery out of the reach of children.**
- **The booster battery must be rated at 12 volts. Use of an improperly rated battery can damage your vehicle.**
- **Whenever working on or near a battery, always wear suitable eye protectors (for example, goggles or industrial safety spectacles) and remove rings, metal bands, or any other jewelry. Do not lean over the battery when jump starting.**
- **Do not attempt to jump start a frozen battery. It could explode and cause serious injury.**
- **Your vehicle has an automatic engine cooling fan. It could come on at any time. Keep hands and other objects away from it.**

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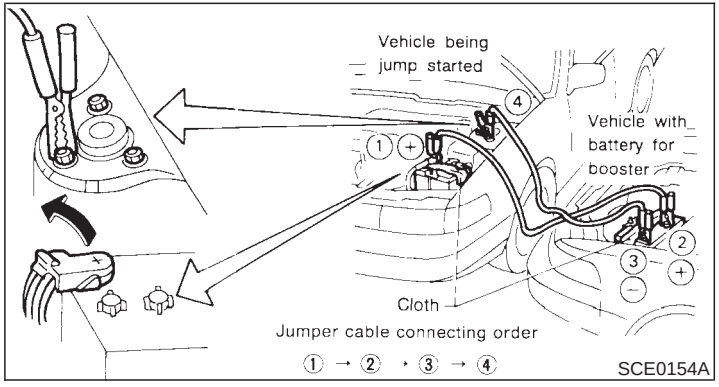

⚠ WARNING

Always follow the instructions below. Failure to do so could result in damage to the charging system and cause personal injury.

1. If the booster battery is in another vehicle, position the two vehicles to bring their batteries into close proximity to each other.

   Do not allow the two vehicles to touch.

2. Apply parking brake. Move the shift lever to the N (Neutral) position (On automatic transmission models, move the selector lever to the P (Park) position). Switch off all unnecessary electrical systems (light, heater, air conditioner, etc.).
3. Remove vent caps on the battery (if so equipped). Cover the battery with an old cloth to reduce explosion hazard.
4. Connect jumper cables in the sequence as illustrated.

⚠ CAUTION

- **Always connect positive (+) to positive (+) and negative (−) to body ground (for example, strut mounting bolt, etc. — not to the battery).**
- **Make sure that cables do not touch moving parts in the engine compartment and that clamps do not contact any other metal.**

5. Start the engine of the other vehicle and let it run for a few minutes.
6. Keep the engine speed of the other vehicle at about 2,000 rpm, and start your engine in the normal manner.

⚠ CAUTION

Do not keep starter motor engaged for more than 10 seconds. If the engine does not start right away, turn the key off and wait 3 to 4 seconds before trying again.

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7. After starting your engine, carefully disconnect the negative cable and then the positive cable.
8. Replace the vent caps (if so equipped). Be sure to dispose of the cloth used to cover the vent holes as it may be contaminated with corrosive acid.

PUSH STARTING

⚠CAUTION

- **Automatic transmission models cannot be push started. This may cause transmission damage.**
- **Three way catalyst equipped models should not be started by pushing since the three way catalyst may be damaged.**
- **Never try to start the vehicle by towing it; when the engine starts, the forward surge could cause the vehicle to collide with the tow vehicle.**

IF YOUR VEHICLE OVERHEATS

⚠WARNING

- **Do not continue to drive if your vehicle overheats. Doing so could cause a vehicle fire.**
- **To avoid the danger of being scalded, never remove the radiator cap while the engine is still hot. When the radiator cap is removed, pressurized hot water will spurt out, possibly causing serious injury.**
- **Do not open the hood if steam is coming out.**

If your vehicle is overheating (indicated by an extremely high temperature gauge reading), or if you feel a lack of engine power, detect abnormal noise, etc., take the following steps:

1. Move the vehicle safely off the road, apply the parking brake and move the shift lever to the N (Neutral) position (automatic transmission to the P (Park) position).

   Do not stop the engine.

2. Turn off the air conditioner switch. Open all the windows, move the heater or air conditioner temperature control to maximum hot

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and fan control to high speed.

3. If engine overheating is caused by climbing a long hill on a hot day, run the engine at a fast idle (approximately 1,500 rpm) until the temperature gauge indication returns to normal.
4. Get out of the vehicle. Look and listen for steam or coolant escaping from the radiator before opening the hood. Wait until no steam or coolant can be seen before proceeding.
5. Open the engine hood.

⚠ WARNING

If steam or water is coming from the engine, stand clear to prevent getting burned.

6. Visually check if the cooling fan is running. The radiator hoses and radiator should not leak water.

   If coolant is leaking or the cooling fan does not run, stop the engine.

⚠ WARNING

- **Be careful not to allow your hands, hair, jewelry or clothing to come into contact with, or to get caught in the cooling fan, or drive belt.**
- **The fan motor can start at any time when the coolant temperature is high.**

7. After the engine cools down, check the coolant level in the reservoir tank with the engine running. Add coolant to the reservoir tank if necessary. Have your vehicle repaired at the nearest NISSAN dealer.

TOWING YOUR VEHICLE

When towing your vehicle, all State (Provincial in Canada) and local regulations for towing must be followed. Incorrect towing equipment could damage your vehicle. Towing instructions are available from your NISSAN dealer. Local service operators are generally familiar with the applicable laws and procedures for towing. To assure proper towing and to prevent accidental damage to your vehicle, NISSAN recommends having a service operator tow your vehicle. It is advisable to have the service operator carefully read the following precautions.

⚠ WARNING

- **Never ride in a vehicle that is being towed.**
- **Never get under your vehicle after it has been lifted by a tow truck.**

⚠ CAUTION

- **When towing, make sure that the transmission, axles, steering system, and powertrain are in working condition. If any unit is damaged, dollies must be used.**

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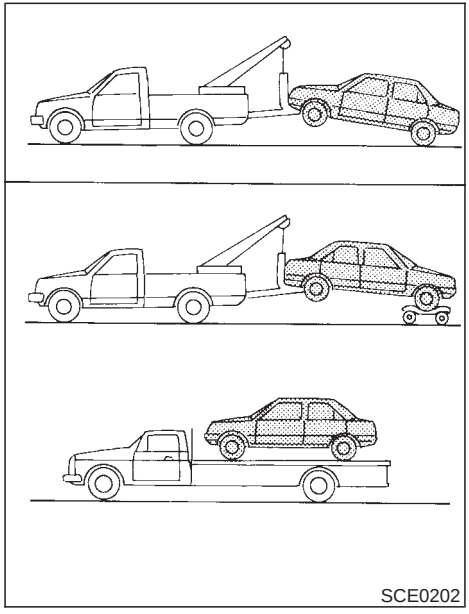
- **Always attach safety chains before towing.**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TOWING RECOMMENDED BY NISSAN

NISSAN recommends that your vehicle be towed with the driving (front) wheels off the ground as illustrated.

⚠CAUTION

- **Always release the parking brake when towing with the rear wheels on the ground.**
- **When towing manual transmission models with the front wheels on the ground (If you do not use a towing dolly):**
  Turn the ignition key to the OFF position, and secure the steering wheel in a straight-ahead position with a rope or similar device. Never place the ignition key in the LOCK position. This will result in damage to the steering lock mechanism.
  Move the gearshift lever to the N (Neutral) position.

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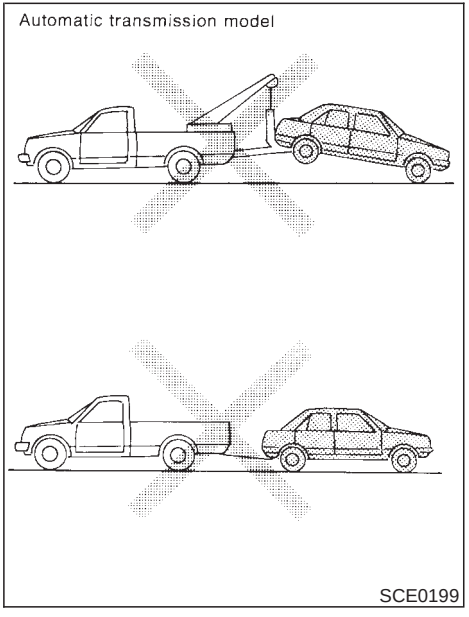

⚠CAUTION

- **Never tow an automatic transmission models with the front wheels on the ground as this may cause serious and expensive damage to the transmission. If it is necessary to tow the vehicle with the rear wheels raised, always use a towing dollies under the front wheels.**
- **Never tow an automatic transmission model from the rear (that is, backward) with four wheels on the ground as this may cause serious and expensive damage to the transmission.**

VEHICLE RECOVERY (Freeing a stuck vehicle)

- Tow chains or cables must be attached only to the main structural members of the vehicle.
- Pulling devices should be routed so they do not touch any part of the suspension, steering, brake or cooling systems.
- Always pull the cable straight out from the front or rear of the vehicle. Never pull on the vehicle at an angle.
- Pulling devices such as ropes or canvas straps are not recommended for use in vehicle towing or recovery.
- Stand clear of an stuck vehicle.

⚠WARNING

Do not spin your tires at high speed. This could cause them to explode and result in serious injury. Parts of your vehicle could also overheat and be damaged.

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7 Appearance and care

Cleaning exterior 7-2
Cleaning interior 7-4
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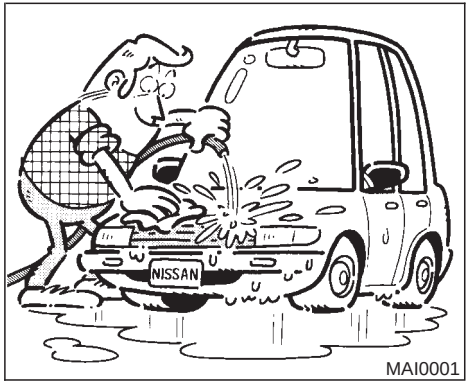
CLEANING EXTERIOR



In order to maintain the appearance of your vehicle, it is important to take proper care of it.

In the following cases, please wash your vehicle as soon as possible to protect the paint surface.

- After a rainfall to prevent possible damage from acid rain
- After driving on coastal roads
- When contaminants such as soot, bird droppings, tree sap, metal particles or bugs get on the paint surface
- When dust or mud builds up on the surface

Whenever possible, store or park your vehicle inside a garage or in a covered area.

When it is necessary to park outside, park in a shady area or protect the vehicle with a body cover.

Be careful not to scratch the paint surface when putting on or removing the body cover.

WASHING

Thoroughly rinse surface dirt off the vehicle with a wet sponge and plenty of clean water. Clean the vehicle thoroughly using a mild soap such as Nissan Car Wash, or a general purpose dishwashing liquid mixed with clean, lukewarm (never hot) water.

⚠CAUTION

- **Do not use strong household soap, strong chemical detergents, gasoline or solvents.**
- **Do not wash the vehicle in direct sunlight or while the vehicle body is hot, as the surface may become water-spotted.**
- **Avoid using tight-napped or rough cloths, such as washing mitts. Care must be taken when removing caked-on dirt or other foreign substances so that the paint surface is not scratched or damaged.**

Rinse the vehicle again with plenty of clean water.

Inside flanges, seams and folds on the doors, hatches and hood are particularly vulnerable to the effects of road salt. Therefore, these areas must be regularly cleaned. Make sure that the drain holes in the lower edge of the door are open. Spray water under the body and in the wheel wells to loosen the dirt and wash away road salt.

Avoid leaving water spots on the paint surface by using a damp chamois to dry the vehicle.

WAXING

Regular waxing protects the paint surface and helps retain new vehicle appearance. After waxing, polishing is recommended to remove built-up residue and to avoid a weathered appearance.

If you wish to wax your vehicle, only use a wax specified for use over clear coats, such as Nissan Liquid or Spray Wax. Your Nissan

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dealer can assist you in choosing the proper product.

- Wax your vehicle only after a thorough washing. Follow the instructions supplied with the wax.
- Do not use a wax containing any abrasives, cutting compounds or cleaners that may damage the vehicle finish.
- If the surface does not polish easily, use a road tar remover and wax again.

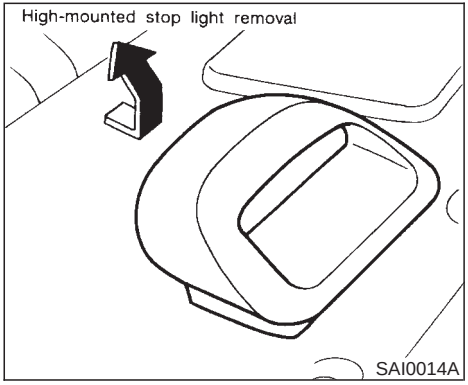
Machine compounding or aggressive polishing on a base coat/clear coat paint finish may dull the finish or leave swirl marks.

REMOVING SPOTS

Remove tar and oil spots, industrial dust, insects, and tree sap as quickly as possible from the surface of the paint to avoid lasting damage or staining. Special cleaning products are available at your NISSAN dealer or any automotive accessory store.

UNDERBODY

In areas where road salt is used in winter, the underbody must be cleaned regularly. This will prevent dirt and salt from building up and causing underbody and suspension corrosion. Before the winter period and again in the spring, the underseal must be checked and, if necessary, re-treated.



GLASS

When cleaning the rear window, it may be easier to clean if the high-mounted stop light is removed first.

Be careful when removing the high-mounted stop light to reduce the risk of damaging the high-mounted stop light wires.

The high-mounted stop light must be properly reinstalled before driving your vehicle.

Use glass cleaner to remove smoke and dust film from the glass surfaces. It is normal for glass to become coated with a film after the vehicle is parked in the hot sun. Glass cleaner

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and a soft cloth will easily remove this film.

⚠CAUTION

When cleaning the inside of the window, do not use sharp-edged tools, abrasive cleaners or chlorine based disinfectant cleaners. They could damage the rear window defogger.

ALUMINUM ALLOY WHEELS

Wash regularly, especially during winter months in areas where road salt is used. Salt could discolor the wheel if not removed.

CHROME PARTS

Clean all chrome parts regularly with a non-abrasive chrome polish to maintain the finish.

Occasionally remove loose dust from the interior trim, plastic parts and seats using a vacuum cleaner or soft brush. Wipe the vinyl and leather surfaces with a clean, soft cloth dampened in mild soap solution, then wipe clean with a dry soft cloth. Before using any fabric protector, read the manufacturer's recommendations. Some fabric protectors contain chemicals that may stain or bleach the seat material.

⚠CAUTION

- **Never use benzine, thinner, or any similar material.**
- **The leather seats should be regularly coated with a leather wax like saddle soap. Never use car wax.**
- **Never use fabric protectors unless recommended by the manufacturer.**

Floor mats

The use of Genuine Nissan floor mats can extend the life of your vehicle carpet and make it easier to clean the interior. **No matter what mats are used, be sure they are fitted for your vehicle and are properly positioned in the footwell to prevent interference with pedal operation.** Mats should be maintained with regular cleaning and replaced if they become excessively worn.

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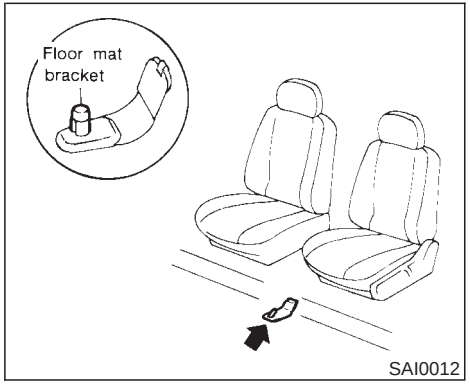

Floor mat positioning aid (Driver side only)

This model includes a front floor mat bracket to act as a floor mat positioning aid. NISSAN floor mats have been specially designed for your vehicle model. The driver's side floor mat has a grommet hole incorporated in it. Simply position the mat by placing the floor mat bracket hook through the floor mat grommet hole while centering the mat in the floorpan contour.

Periodically check to make certain that the mats are properly positioned.

SEAT BELTS

The seat belts can be cleaned by wiping them with a sponge dampened in a mild soap solution. Allow the belts to dry completely before using them.

⚠WARNING

Do not allow wet belts to roll up in the retractor. NEVER use bleach, dye, or chemical solvents since these may severely weaken the seat belt webbing.

MOST COMMON FACTORS CONTRIBUTING TO VEHICLE CORROSION:

- The accumulation of moisture-retaining dirt and debris in body panel sections, cavities, and other areas.
- Damage to paint and other protective coatings caused by gravel and stone chips or minor traffic accidents.

ENVIRONMENTAL FACTORS INFLUENCE THE RATE OF CORROSION:

Moisture

Accumulation of sand, dirt and water on the vehicle body underside can accelerate corrosion. Wet floor coverings will not dry completely inside the vehicle, and should be removed for drying to avoid floor panel corrosion.

Relative humidity

Corrosion will be accelerated in areas of high relative humidity, especially those areas where the temperatures stay above freezing and where atmospheric pollution exists and road salt is used.

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Temperature

A temperature increase will accelerate the rate of corrosion to those parts which are not well ventilated.

Air pollution

Industrial pollution, the presence of salt in the air in coastal areas, or heavy road salt use will accelerate the corrosion process. Road salt will also accelerate the disintegration of paint surfaces.

TO PROTECT YOUR VEHICLE FROM CORROSION:

- Wash and wax your vehicle often to keep the vehicle clean.
- Always check for minor damage to the paint and repair it as soon as possible.
- Keep drain holes at the bottom of the doors open to avoid water accumulation.
- Check the underbody for accumulation of sand, dirt or salt. If present, wash with water as soon as possible.

⚠CAUTION

- **NEVER remove dirt, sand or other debris from the passenger compartment by washing it out with a hose. Remove dirt with a vacuum cleaner or broom.**
- **Never allow water or other liquids to come in contact with electronic components inside the vehicle as this may damage them.**

Chemicals used for road surface de-icing are extremely corrosive. They accelerate corrosion and deterioration of underbody components such as the exhaust system, fuel and brake lines, brake cables, floor pan and fenders.

In winter, the underbody must be cleaned periodically.

For additional protection against rust and corrosion, which may be required in some areas, consult your local NISSAN dealer.

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8 Do-it-yourself

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MAINTENANCE PRECAUTIONS

When performing any inspection or maintenance work on your vehicle, always take care to prevent serious accidental injury to yourself or damage to the vehicle. The following are general precautions which should be closely observed.

⚠ WARNING

- **Park the vehicle on a level surface, apply the parking brake securely and block the wheels to prevent the vehicle from moving. For a manual transmission, move the shift lever to N (Neutral) position. For an automatic transmission, move the selector lever to P (Park) position.**
- **Be sure the ignition key is OFF or LOCK when performing any parts replacement or repairs.**
- **Your vehicle is equipped with an automatic engine cooling fan. It may come on at any time without warning, even if the ignition key is in the OFF position and the engine is not running. To avoid injury, always disconnect the negative battery cable before working near the fan.**
- **If you must work with the engine running, keep your hands, clothing, hair and tools away from moving fans, belts and any other moving parts.**
- **It is advisable to remove necktie and any jewelry, such as rings, watches, etc. before working on your vehicle.**
- **Always wear eye protection whenever you work on your vehicle.**
- **If you must run the engine in an enclosed space such as a garage, be sure there is proper ventilation for exhaust gases.**
- **Never get under the vehicle while it is supported only by a jack. If it is necessary to work under the vehicle, support it with safety stands.**
- **Keep smoking materials, flame and sparks away from fuel and the battery.**
- **On gasoline engine models with the Multiport Fuel Injection (MFI) System, the fuel filter or fuel lines should be serviced by a NISSAN dealer because the fuel lines are under high pressure even when the engine is off.**

⚠ CAUTION

- **Do not work under the hood while the engine is hot. Turn off the engine and wait until it cools down.**
- **Never connect or disconnect either the battery or any transistorized component connector while the ignition key is on.**
- **Never leave the engine or the automatic transmission related component harness connector disconnected while the ignition key is on.**
- **Avoid direct contact with used engine oil. Improperly disposed motor oil and/or other vehicle fluids can hurt the environment. Always conform to local regulations for disposal of vehicle fluid.**

This “8. Do-it-yourself” section gives instructions regarding only those items which are relatively easy for an owner to perform.

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You should be aware that incomplete or improper servicing may result in operating difficulties or excessive emissions, and could affect your warranty coverage. **If in doubt about any servicing, have it done by your NISSAN dealer.**

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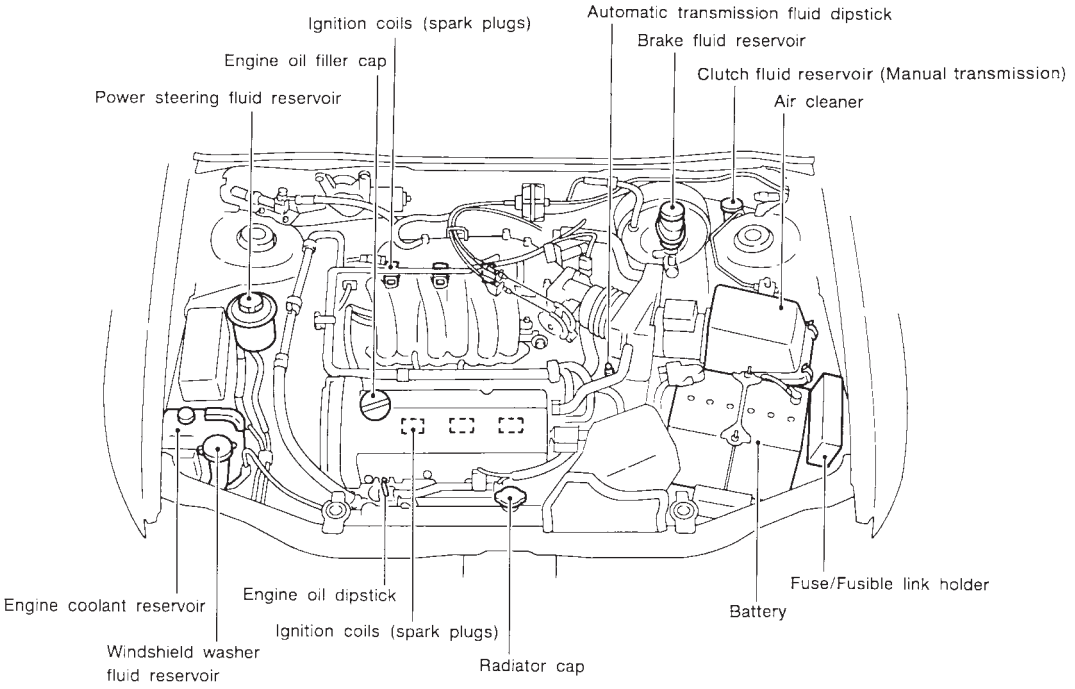
ENGINE COMPARTMENT CHECK LOCATIONS



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ENGINE COOLING SYSTEM

The engine cooling system is filled at the factory with a high-quality, year-round, anti-freeze coolant solution. The anti-freeze solution contains rust and corrosion inhibitors, therefore additional cooling system additives are not necessary.

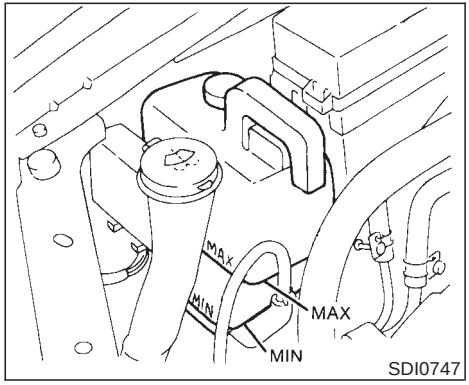
⚠CAUTION

When adding or replacing coolant, be sure to use only an ethylene glycol anti-freeze with the proper mixture ratio of 50% anti-freeze and 50% distilled water. The use of other types of coolant solutions may damage your engine cooling system.

Outside temperature down to		Anti-freeze	Distilled water
°C	°F		
−35	−30	50%	50%

⚠WARNING

- **Never remove the radiator cap when the engine is hot. Serious burns could be caused by high pressure fluid escaping from the radiator. Wait until the engine and radiator cool down.**
- **See "If your vehicle overheats" in the "6. In case of emergency" section.**
- **The radiator is equipped with a pressure cap. Use only a genuine cap as a replacement.**



CHECKING ENGINE COOLANT LEVEL

Check the coolant level in the reservoir tank when the engine is cold. If the coolant level is below MIN, add coolant up to the MAX level. If the reservoir tank is empty, check the coolant level in the radiator **when the engine is cold.** If there is insufficient coolant in the radiator, fill the radiator with coolant up to the filler opening and also add it to the reservoir tank up to the MAX level.

If the engine cooling system frequently

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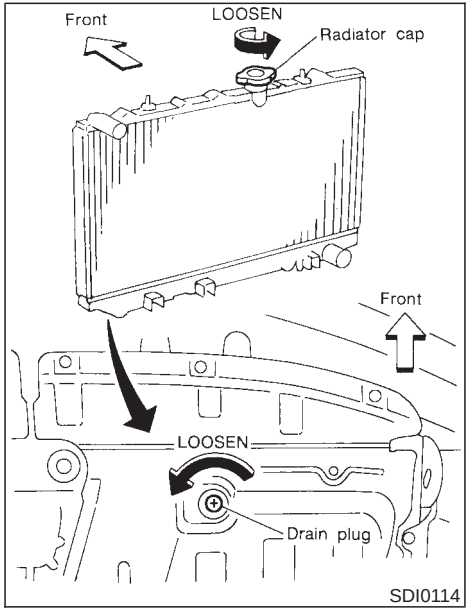
requires coolant, have it checked by your NISSAN dealer.



CHANGING ENGINE COOLANT

- Major cooling system repairs should be performed by your NISSAN dealer. The service procedures can be found in the appropriate NISSAN Service Manual.
- Improper servicing can result in reduced heater performance and engine overheating.

⚠ WARNING

- **To avoid the danger of being scalded, never change the coolant when the engine is hot.**
- **Never remove the radiator cap when the engine is hot. Serious burns could be caused by high pressure fluid escaping from the radiator.**

1. Open the radiator cap and drain plug.
2. Open the drain plug on the engine block.
3. Flush the cooling system by running fresh water through the radiator.
4. Close the radiator drain plug and the drain plug on the engine block securely.

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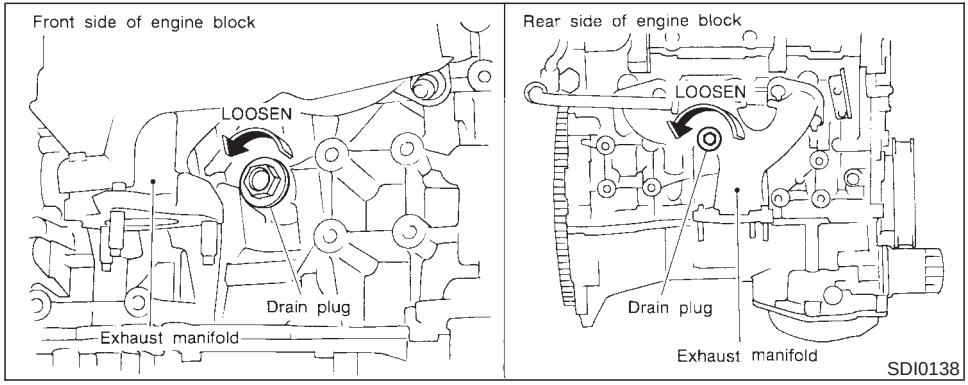
5. See “Capacities and recommended fuel/lubricants” in the “10. Technical and consumer information” section for cooling system capacity. Fill the radiator slowly with the proper mixture of coolant and water. Fill the reservoir tank up to the MAX level. Then install the radiator cap.



6. Start the engine, and warm it up until the radiator fan operates. Then race the engine two or three times under no load. Watch the coolant temperature gauge for signs of overheating.
7. Stop the engine. After it completely cools down, refill the radiator up to the filler opening. Fill the reservoir tank up to the MAX level.
8. Check the radiator drain plug and the drain plug on the engine block for any sign of leakage.

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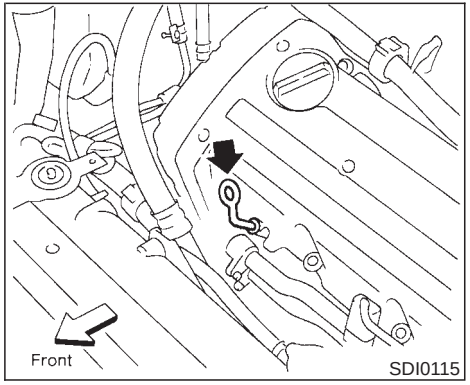

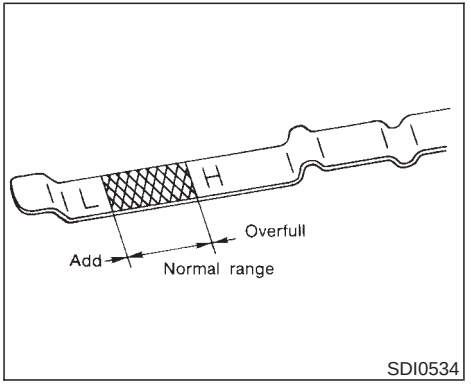

CHECKING ENGINE OIL LEVEL

1. Park the vehicle on a level surface and apply parking brake.
2. Run the engine until it reaches operating temperature.
3. Turn off the engine. **Wait more than 10 minutes for the oil to drain back into the oil pan.**
4. Remove the dipstick and wipe it clean. Reinsert it all the way.
5. Remove the dipstick again and check the oil level. It should be between the H and L marks. If the oil level is below the L mark, remove the oil filler cap and pour recommended oil through the opening. **Do not overfill.**
6. Recheck oil level with dipstick.

It is normal to add some oil between oil maintenance intervals or during the break-in period, depending on the severity of operating conditions.

⚠CAUTION

Oil level should be checked regularly. Operating with insufficient amount of oil can damage the engine, and such damage is not covered by warranty.

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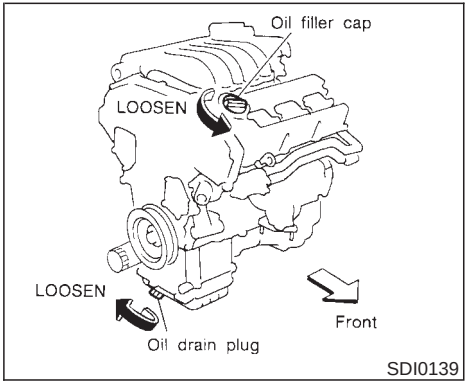

CHANGING ENGINE OIL

1. Park the vehicle on a level surface and apply the parking brake.
2. Run the engine until it reaches operating temperature.
3. Turn the engine off and wait more than 10 minutes.
4. Place a large drain pan under the drain plug.
5. Remove the oil filler cap.
6. Remove the drain plug with a wrench and completely drain the oil.

   If oil filter is to be changed, remove and replace it at this time. See later in “Engine oil” for changing engine oil filter.

⚠CAUTION

Be careful not to burn yourself, as the engine oil is hot.

Waste oil must be disposed of properly. Check your local regulations.

7. Clean and re-install the drain plug and new washer. Securely tighten the drain plug with a wrench.

   Drain plug tightening torque:

   22 to 29 ft-lb
   (29 to 39 N·m)

   Do not use excessive force.
8. Refill engine with recommended oil and install the cap securely.

   See “Capacities and recommended fuel/lubricants” in the “10. Technical and consumer information” section for refill capacity.
9. Start the engine.

   Check for leakage around the drain plug. Correct as required.
10. Turn the engine off and wait more than 10 minutes. Check the oil level with the dipstick. Add engine oil if necessary.
11. Dispose of waste oil in the proper manner.

⚠WARNING

- **Prolonged and repeated contact with used engine oil may cause skin cancer.**
- **Try to avoid direct skin contact with used oil. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.**
- **Keep used engine oil out of reach of children.**

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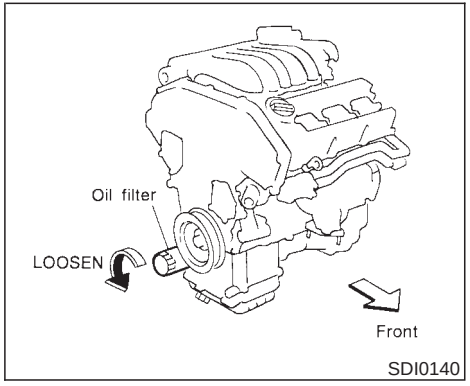


CHANGING ENGINE OIL FILTER

1. Park the vehicle on a level surface and apply the parking brake.
2. Turn the engine off.
3. Loosen the oil filter with an oil filter wrench. (Depending on the engine model, a special **cap type** wrench may be required. See your NISSAN dealer if in doubt.) Remove the oil filter by turning it by hand.

⚠CAUTION

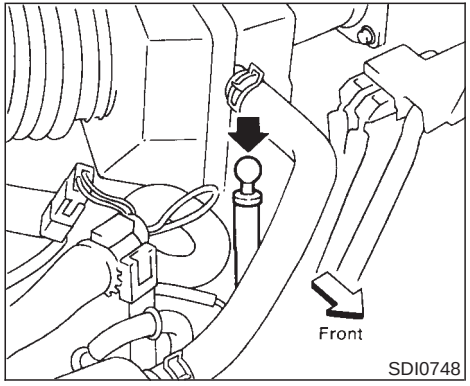
Be careful not to burn yourself, as the engine oil may be hot.

4. Wipe the engine oil filter mounting surface with a clean rag.

   Be sure to remove any old rubber gasket remaining on the mounting surface of the engine.
5. Coat the rubber gasket on the new filter with clean engine oil.
6. Screw in the oil filter until a slight resistance is felt, then tighten additionally more than 2/3 turn.

   Oil filter tightening torque:

   10.85 to 15.19 ft-lb
   (14.7 to 20.6 N·m)
7. Start the engine and check for leakage around the oil filter. Correct as required.
8. Turn the engine off and wait several minutes. Check the oil level. Add engine oil if necessary.



⚠WARNING

- **When engine is running, keep hands, jewelry and clothing away from any moving parts such as cooling fan and drive belt.**
- **Automatic transmission fluid is poisonous and should be stored carefully in marked containers out of the reach of children.**

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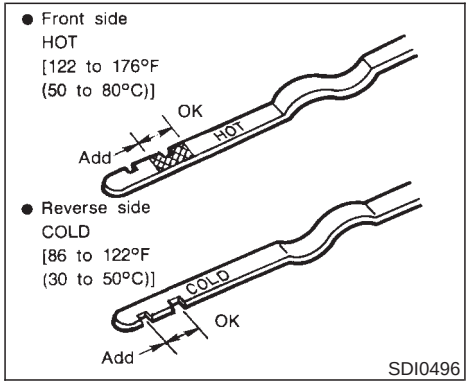
TEMPERATURE CONDITIONS FOR CHECKING

- The fluid level should be checked using the HOT range on the dipstick after the following conditions have been met:
  a) the engine should be warmed up to operating temperature.
  b) the vehicle should be driven at least 5 minutes.
  c) the automatic transmission fluid should be warmed to between 122 and 176°F (50 and 80°C).
- The fluid can be checked at fluid temperatures of 86 to 122°F (30 to 50°C) using the COLD range on the dipstick after the engine is warmed up and before driving. However, the fluid should be re-checked using the HOT range.

1. Park the vehicle on a level surface and set the parking brake.
2. Start the engine and then move the selector lever through each gear range. Move the selector lever to P (Park) position after you have moved it through all ranges.



3. Check the fluid level with the engine idling.
4. Remove the dipstick and wipe it clean with lint-free paper.
5. Reinsert the dipstick into the charging pipe as far as it will go.
6. Remove the dipstick and note the reading. If the level is at the low side of either range, add fluid to the charging pipe.

⚠ CAUTION

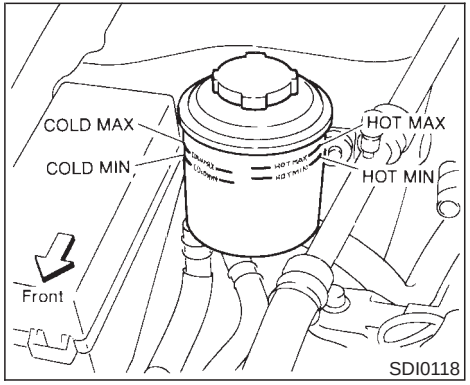
- **Do not overfill.**
- **Use only NISSAN Matic D (Continental US and Alaska) or genuine automatic transmission fluid (Canada). Dexron™III/Mercon™ or equivalent may also be used. Outside the continental US and Alaska contact a NISSAN dealer for more information regarding suitable fluids, including recommended brand(s) of Dexron™ III/Mercon™ automatic transmission fluid.**

NOTE:

If the vehicle has been driven for a long time at high speeds, or in city traffic in hot weather, or if it is being used to pull a trailer, the accurate fluid level cannot be read. You should wait until the fluid has cooled down (about 30 minutes).

DEP DEALER E-PROCESS

POWER STEERING FLUID



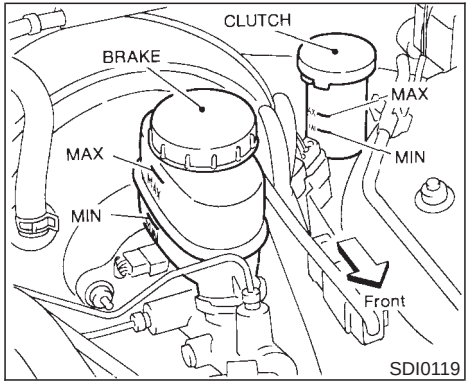
Check the fluid level in the reservoir tank.

The fluid level should be checked using the HOT range at fluid temperatures of 122 to 176°F (50 to 80°C) or using the COLD range at fluid temperatures of 32 to 86°F (0 to 30°C).

⚠CAUTION

- **Do not overfill.**
- **Use type DEXRON™III or equivalent.**

BRAKE AND CLUTCH FLUID



Check the fluid level in the reservoir. If the fluid is below the MIN line or the brake warning light comes on, add **DOT 3** fluid up to the MAX line. If fluid must be added frequently, the system should be thoroughly checked by your NISSAN dealer.

⚠WARNING

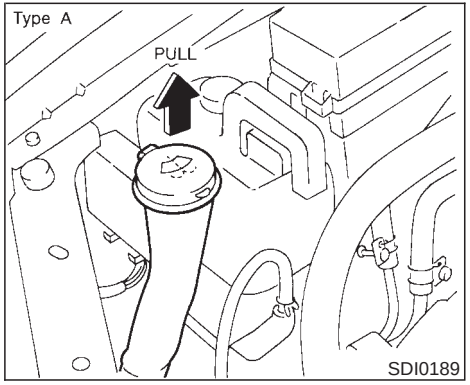
Use only new fluid. Old, inferior, or contaminated fluid may damage the brake and clutch systems. The use of improper fluids can damage the brake system and affect the vehicle's stopping ability.

⚠CAUTION

Do not spill the fluid on painted surfaces. This will damage the paint. If fluid is spilled, wash with water.

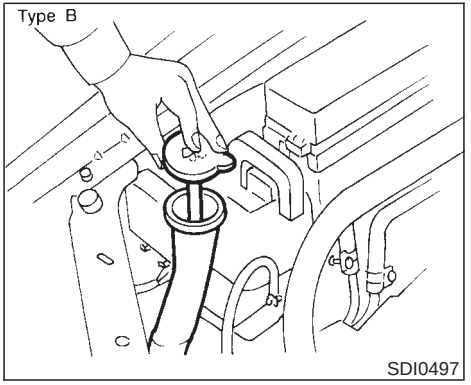
DEP
DEALER E-PROCESS

WINDOW WASHER FLUID



Type A:

Add fluid when the low washer fluid warning light comes on. Add a washer solvent to the water for better cleaning. In the winter season, add a windshield washer anti-freeze. Follow the manufacturer's instructions for the mixture ratio.



Type B:

To check the fluid level, use your finger to plug the center hole of the cap (as shown above), then remove it from the tank. If there is no fluid in the tube, add fluid. Add a washer solvent to the water for better cleaning. In the winter season, add a windshield washer anti-freeze. Follow the manufacturer's instructions for the mixture ratio.

⚠WARNING

Anti-freeze is poisonous and should be stored carefully in marked containers out of the reach of children.

⚠CAUTION

Do not substitute engine anti-freeze coolant for window washer solution. This may result in damage to the paint.

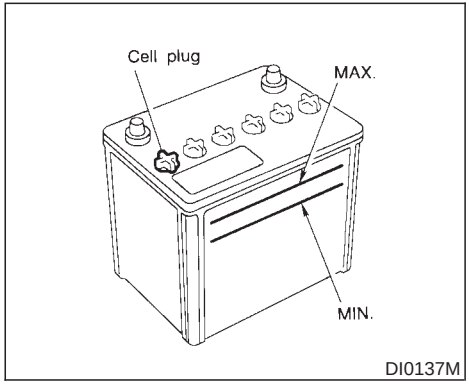
DEP DEALER E-PROCESS

BATTERY

- Keep the battery surface clean and dry. Any corrosion should be washed off with a solution of baking soda and water.
- Make certain the terminal connections are clean and securely tightened.
- If the vehicle is not to be used for 30 days or longer, disconnect the (—) negative battery terminal cable to prevent discharge.

⚠ WARNING

- **Do not expose the battery to flames or electrical sparks. Hydrogen gas generated by battery action is explosive. Do not allow battery fluid to contact your skin, eyes, fabrics, or painted surfaces. After touching a battery or battery cap, do not touch or rub your eyes. Thoroughly wash your hands. If the acid contacts your eyes, skin or clothing, immediately flush with water for at least 15 minutes and seek medical attention.**
- **When working on or near a battery, always wear suitable eye protection and remove all jewelry.**
- **Keep the battery out of the reach of children.**



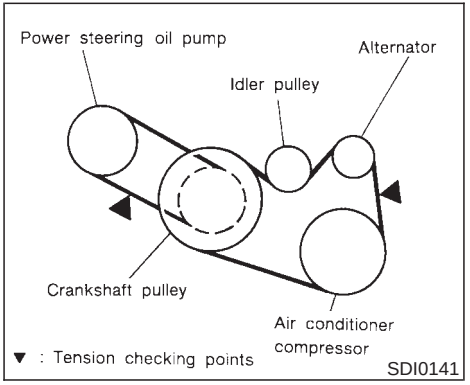
Check the fluid level in each cell. It should be between the MAX and MIN lines.

If it is necessary to add fluid, add only distilled water to bring the level to the indicator in each filler opening. **Do not overfill.**

1. Remove the cell plugs.
2. Add distilled water up to the MAX level.
3. Tighten cell plugs.

DEP DEALER E-PROCESS

If jump starting is necessary, see “Jump starting” the “6. In case of emergency” section. If the engine does not start by jump starting, the battery may have to be replaced. Contact your NISSAN dealer.



⚠WARNING

Be sure the ignition key is OFF. The engine could rotate unexpectedly.

1. Visually inspect each belt for signs of unusual wear, cuts, fraying, oil adhesion or looseness. If the belt is in poor condition or loose, have it replaced or adjusted by your NISSAN dealer.
2. Have the belts checked regularly for condition and tension in accordance with the maintenance schedule in this manual.

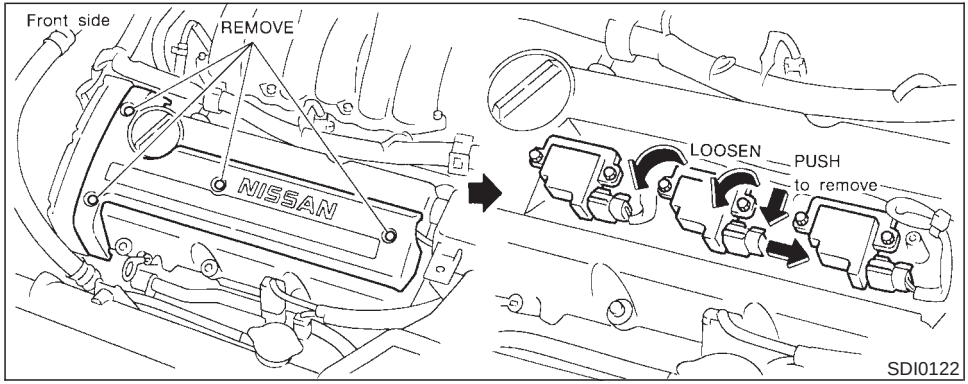
DEP DEALER E-PROCESS

⚠ WARNING

Be sure the engine and ignition switch are off and that the parking brake is engaged securely.

⚠ CAUTION

Be sure to use the correct wrench to remove the plugs. An incorrect wrench can cause damage.



REPLACING SPARK PLUGS

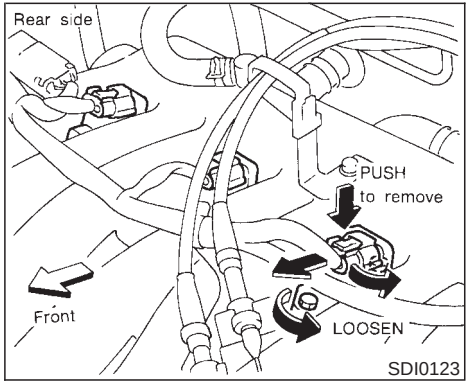
1. Remove the rocker cover ornament using a suitable hexagon wrench. (Front side)
2. Disconnect the electrical connectors.
3. Loosen the ignition coil fixing bolts. And remove the ignition coil to give access to the spark plugs.
4. Remove the spark plugs with a spark plug wrench.

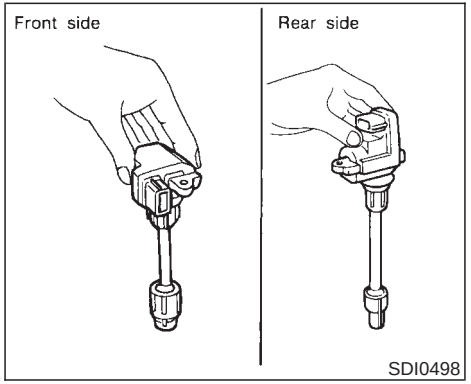
   The plug wrench has a rubber seal that holds the spark plug so that it will not fall when it is pulled out. Make sure that each spark plug is snugly fitted into the plug wrench.
5. Fit the new plugs, one at a time, into the spark plug wrench and install them. Turn each plug in several full turns by hand, then tighten with a spark plug wrench to the correct torque. Do not overtighten.

   Spark plug tightening torque:

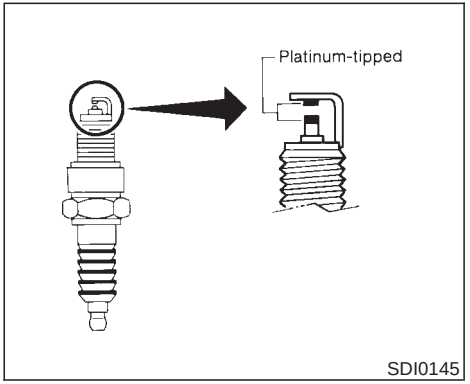
   14 to 22 ft-lb
   (20 to 29 N·m)

DEALER E-PROCESS





6. Holding the ignition coil, re-connect each ignition coil to its proper spark plug by pushing it on until you feel a snap.
7. Tighten all ignition coils.



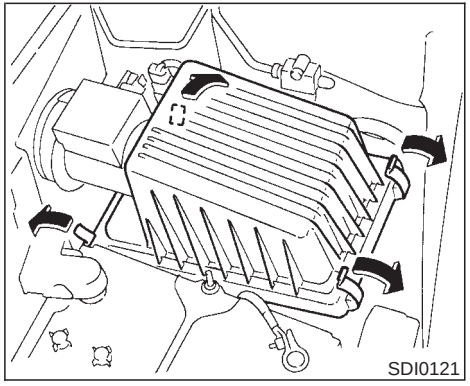
Platinum-tipped spark plugs

It is not necessary to replace the platinum-tipped spark plugs as frequently as the conventional type spark plugs since they will last much longer. Follow the maintenance schedule but, do not reuse them by cleaning or regapping.

Always replace with recommended platinum-tipped spark plugs.

DEP
DEALER E-PROCESS

AIR CLEANER



The filter element should not be cleaned and reused. Replace it according to the maintenance intervals. See “Periodic maintenance schedules” in the “9. Maintenance” section for maintenance intervals. When replacing the filter, wipe the inside of the air cleaner housing and the cover with a damp cloth.

⚠WARNING

- **Operating the engine with the air cleaner off can cause you or others to be burned. The air cleaner not only cleans the air, it stops flame if the engine backfires. If it is not there, and the engine backfires, you could be burned. Do not drive with it off, and be careful working on the engine with the air cleaner off.**
- **Never pour fuel into the throttle body or attempt to start the engine with the air cleaner removed. Doing so could result in serious injury.**

WINDSHIELD WIPER BLADES

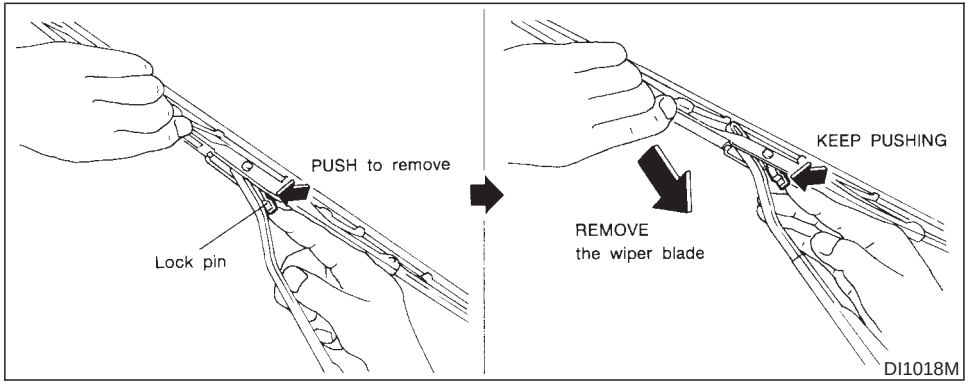
CLEANING

If your windshield is not clear after using the windshield washer or if a wiper blade chatters when running, wax or other material may be on the blade or windshield.

Clean the outside of the windshield with a washer solution or a mild detergent. Your windshield is clean if beads do not form when rinsing with clear water.

Clean the blade by wiping it with a cloth soaked in a washer solution or a mild detergent. Then rinse the blade with clear water. If your windshield is still not clear after cleaning the blades and using the wiper, replace the blades.

DEP DEALER E-PROCESS



REPLACEMENT

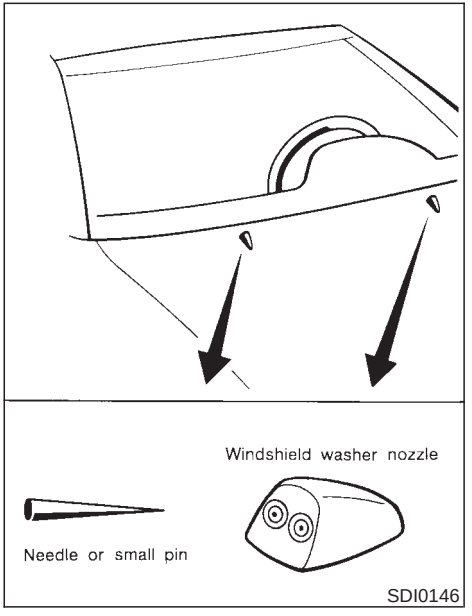
1. Pull the wiper arm.
2. Push the lock pin, then remove the wiper blade.
3. Insert the new wiper blade to the wiper arm until a click sounds.

⚠CAUTION

After wiper blade replacement, return the wiper arm to its original position.

Otherwise it may be damaged when the engine hood is opened.

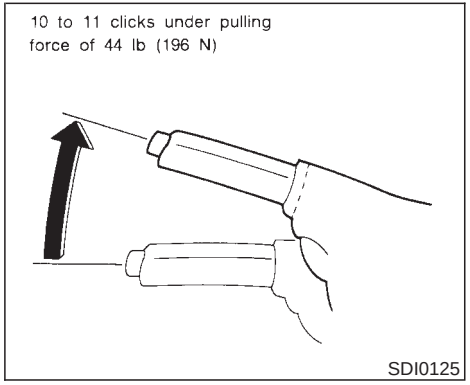
Make sure the wiper blade contacts the glass, otherwise the arm may be damaged from wind pressure.



If you wax the surface of the hood, be careful not to let wax get into the washer nozzle. This may cause clogging or improper windshield washer operation. If wax gets into the nozzle, remove it with a needle or small pin.

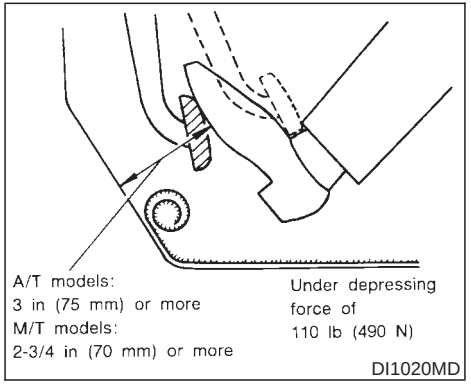
DEP
DEALER E-PROCESS

PARKING BRAKE AND BRAKE PEDAL



CHECKING PARKING BRAKE

From the released position, pull the parking brake lever up slowly and firmly. If the number of clicks is out of the range listed above, see your NISSAN dealer.



CHECKING BRAKE PEDAL

With the engine running, check the distance between the upper surface of the pedal and the metal floor. If it is out of the range shown above, see your NISSAN dealer.

Self-adjusting brakes

Your vehicle is equipped with self-adjusting brakes.

The disc-type brakes self-adjust every time the brake pedal is applied.

⚠ WARNING

See your NISSAN dealer and have it checked if the brake pedal height does not return to normal.

Brake pad wear indicators

The disc brake pads on your vehicle have audible wear indicators. When a brake pad requires replacement, it will make a high pitched scraping or screeching sound when the vehicle is in motion whether or not the brake pedal is depressed. Have the brakes checked as soon as possible if the wear indicator sound is heard.

Under some driving or climate conditions, occasional brake squeak, squeal or other noise may be heard. Occasional brake noise during light to moderate stops is normal and does not affect the function or performance of the brake system.

Proper brake inspection intervals should be followed. For additional information, see “Periodic maintenance schedules” in the “9. Maintenance” section for maintenance intervals.

DEP
DEALER E-PROCESS

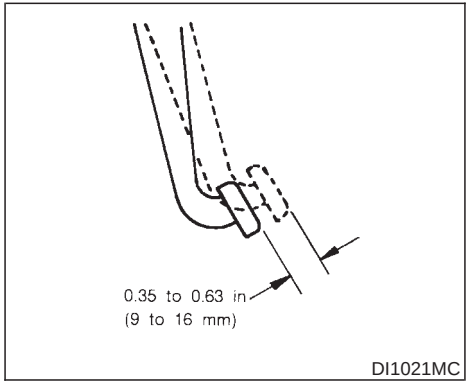
BRAKE BOOSTER

Check the brake booster function as follows:

1. With the engine off, press and release the brake pedal several times. When brake pedal movement (distance of travel) remains the same from one pedal application to the next, continue on to the next step.
2. While depressing the brake pedal, start the engine. The pedal height should drop a little.
3. With the brake pedal depressed, stop the engine. Keeping the pedal depressed for about 30 seconds, the pedal height should not change.
4. Run the engine for one minute without depressing the brake pedal, then turn it off. Depress the brake pedal several times. The pedal travel distance will decrease gradually with each depression as the vacuum is released from the booster.

If the brakes do not operate properly, see your NISSAN dealer.

CLUTCH PEDAL



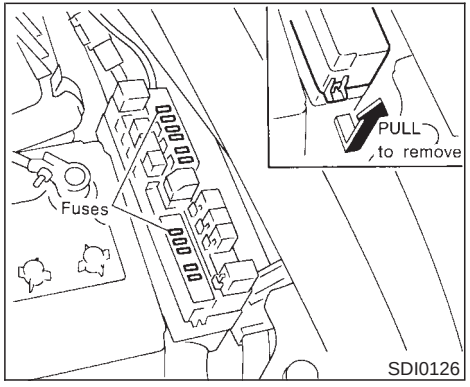
Press the pedal by hand and be sure the free travel is within the limits shown above. If free travel is too little or too much, see your NISSAN dealer.

FUSES

CAUTION

Never use a fuse of higher amperage rating than that specified on the fuse box cover. This could damage the electrical system or cause a fire.

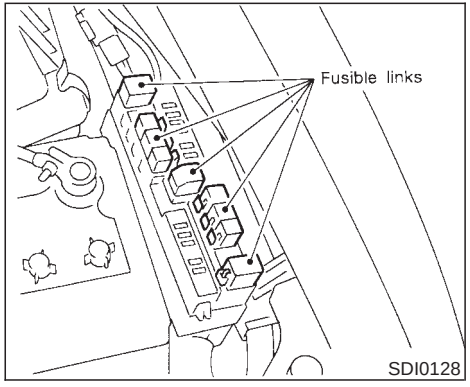
DEP DEALER E-PROCESS



ENGINE COMPARTMENT

If any electrical equipment does not operate, check for an open fuse.

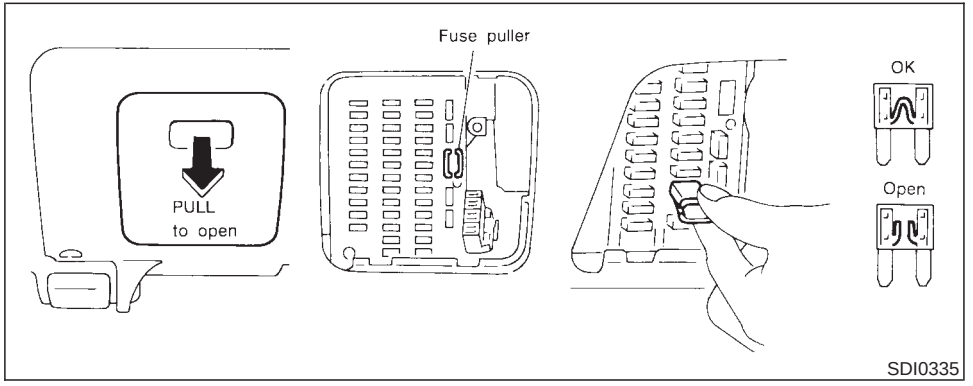
1. Be sure the ignition key and headlight switch are OFF.
2. Open the engine hood.
3. Remove the fusible link cover.
4. Remove the fuse with the fuse puller.
5. If the fuse is open, replace it with a new fuse.
6. If a new fuse also opens, have the electrical system checked and repaired by your NISSAN dealer.



Fusible links

If any electrical equipment does not operate and fuses are in good condition, check the fusible links. If any of these fusible links are melted, replace only with genuine NISSAN parts.

DEP DEALER E-PROCESS

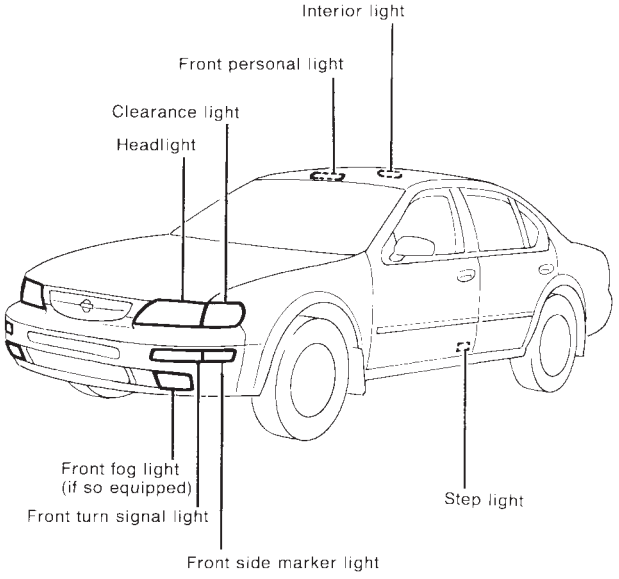


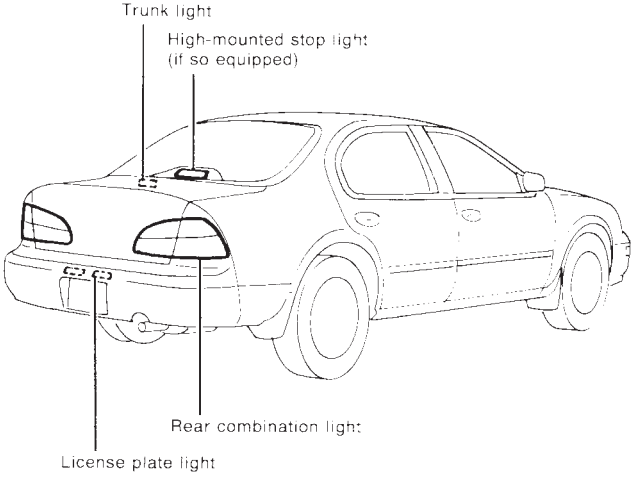
PASSENGER COMPARTMENT

If any electrical equipment does not operate, check for an open fuse.

1. Be sure the ignition key and the headlight switch are OFF.
2. Pull to open the fuse box lid.
3. Remove the fuse with the fuse puller.
4. If the fuse is open, replace it with a new fuse.
5. If a new fuse also opens, have the electrical system checked and repaired by your NISSAN dealer.

DEP
DEALER E-PROCESS





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DEP
DEALER E-PROCESS

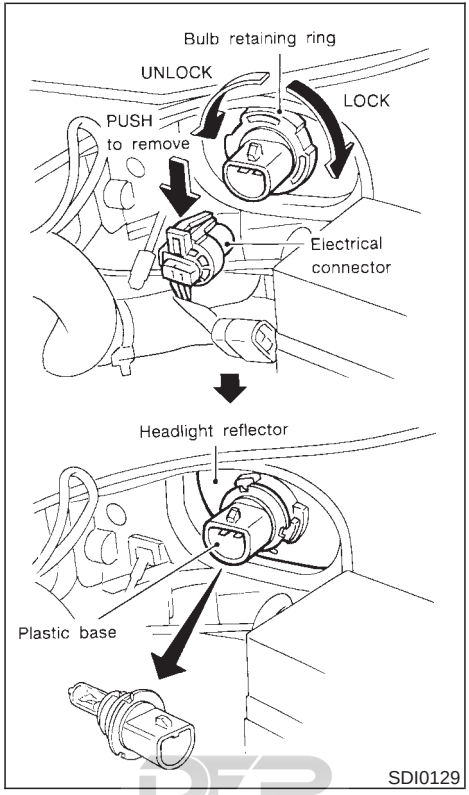
HEADLIGHTS

The headlight is a semi-sealed beam type which uses a replaceable headlight (halogen) bulb. A bulb can be replaced from inside the engine compartment without removing the headlight assembly.

⚠CAUTION

High pressure halogen gas is sealed inside the halogen bulb. The bulb may break if the glass envelope is scratched or the bulb is dropped.

Hold the plastic base when handling the bulb. Never touch the glass envelope.



Replacing the headlight bulb

1. Disconnect the battery negative cable.
2. Disconnect the electrical connector from the rear end of the bulb.
3. Turn the bulb retaining ring counterclockwise until it is free from the headlight reflector, then remove it.
4. Remove the headlight bulb. Do not shake or rotate the bulb when removing it.
5. Insert the bulb into the headlight reflector with the flat side of the plastic base facing upward.
6. Install the bulb retaining ring and turn it clockwise until it stops.
7. Push the electrical connector into the bulb plastic base until it snaps and stops.
8. Connect the battery negative cable.

DEP
DEALER E-PROCESS

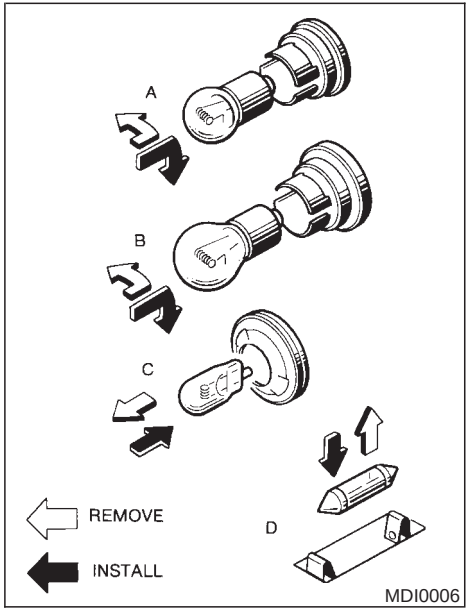
⚠ CAUTION

- **Do not touch the bulb.**
- **Use the same number and wattage as originally installed:**
  Wattage 65/45
  Bulb no. 9004
- **Aiming is not necessary after replacing the bulb. When aiming adjustment is necessary, contact your NISSAN dealer.**
- **Do not leave the bulb out of the headlight reflector for a long period of time as dust, moisture, and smoke may enter the headlight body and affect the performance of the headlight.**

EXTERIOR AND INTERIOR LIGHTS

Item	Wattage (W)	Bulb No.
Clearance	27/8	1157
Front turn signal light	27	1156
Front side marker light	3.8	194
Front fog light (if so equipped)	55	
Rear combination light		
Turn signal	27	1156
Stop/Tail	27/8	1157
Back-up	18	921
Side marker light	3.8	194
License plate light	5	
High-mounted stop light (if so equipped)	18	921
Interior light	10	
Front personal light	10	
Step light	2.7	161
Trunk light	3.4	158
Vanity mirror light (if so equipped)	1.4	—

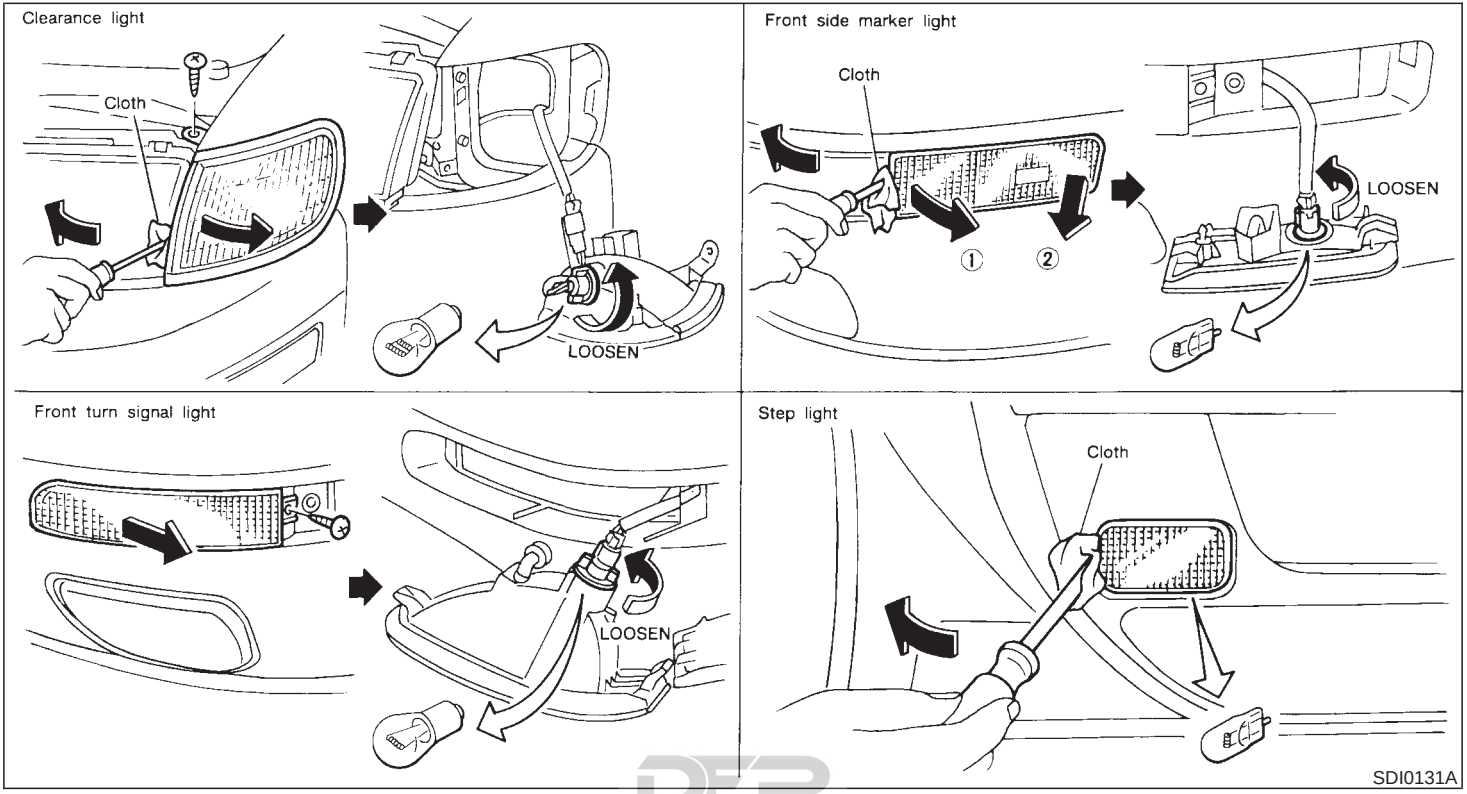
DEP DEALER E-PROCESS



Replacement procedures

All other lights are either type A, B, C or D. When replacing a bulb, first remove the lens and/or cover.

DEP
DEALER E-PROCESS



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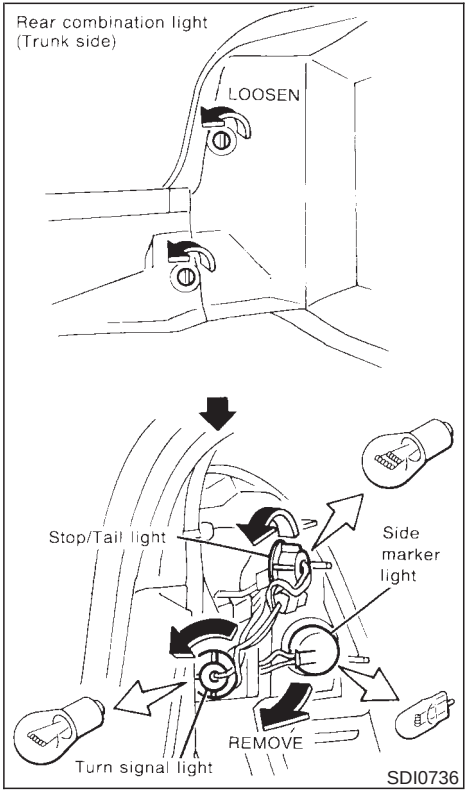

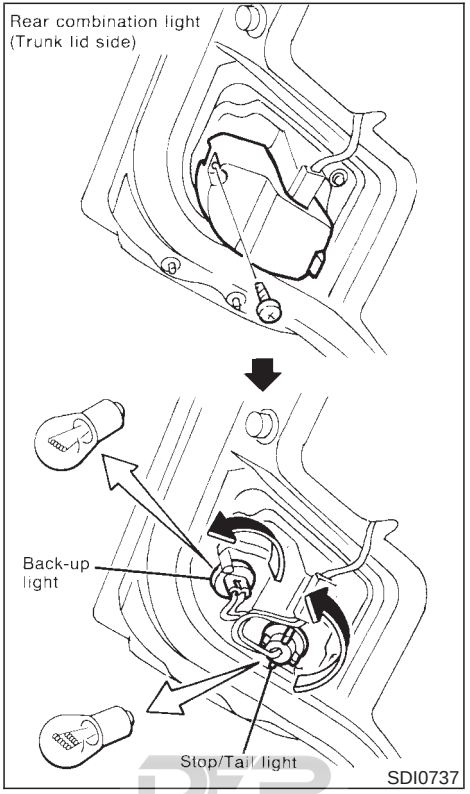

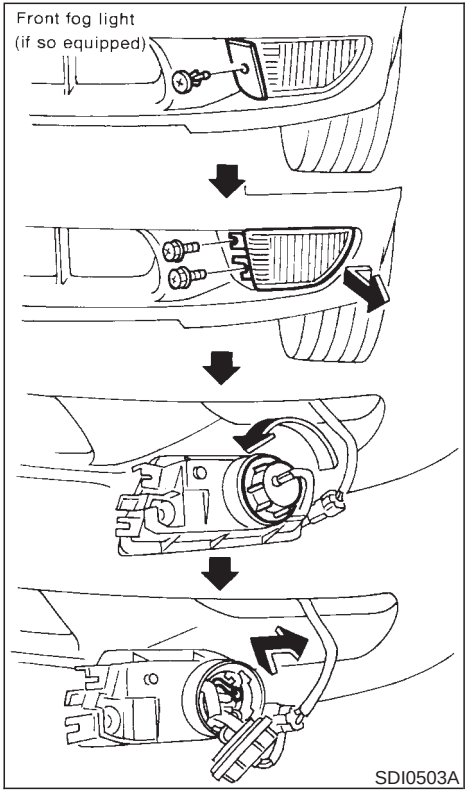

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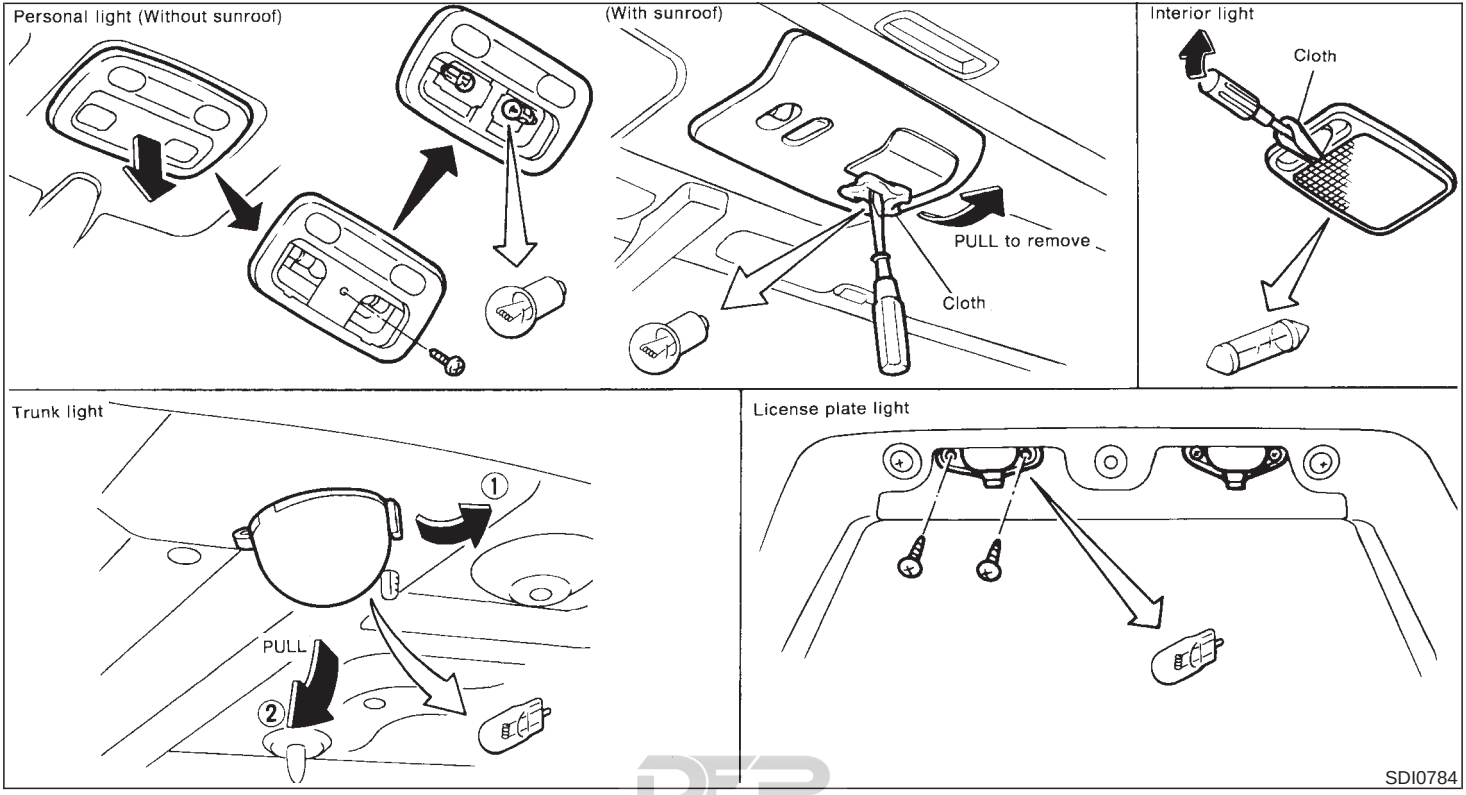

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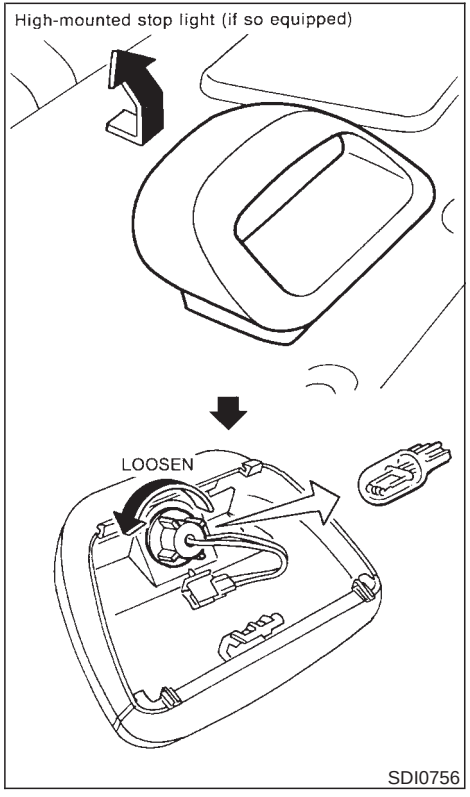
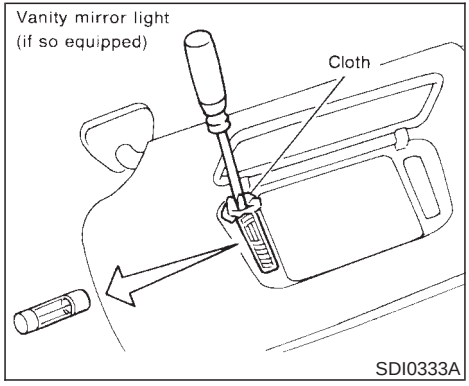
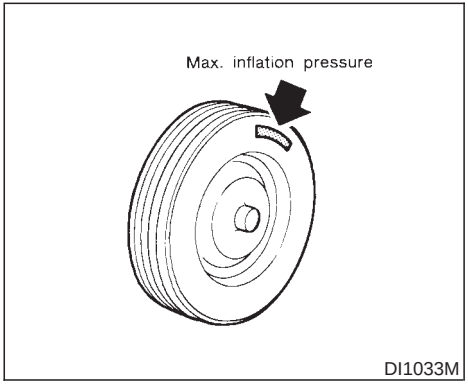
DEALER E-PROCESS







If you have a flat tire, see “Flat tire” in the “6. In case of emergency” section.

TIRE PRESSURE

Maximum inflation pressure

Do not exceed the maximum inflation pressures shown on the side wall of the tire.

Tire inflation pressure

Periodically check the tire pressure (including spare). Incorrect tire pressure may adversely affect tire life and vehicle handling. Tire pressure should be checked when tires are COLD. Tires are considered COLD after the vehicle has been parked for 3 or more hours, or driven

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less than 1 mile (1.6 km). COLD tire pressures are shown on the tire placard affixed to the center console lid.

⚠ WARNING

- **Improperly inflated tires can fail suddenly and cause an accident.**
- **The vehicle capacity weight is indicated on the tire placard. Do not load your vehicle beyond this capacity. Overloading your vehicle may result in reduced tire life, unsafe operating conditions due to premature tire failure, or unfavorable handling characteristics and could also lead to a serious accident. Loading beyond the specified capacity may also result in failure of other vehicle components.**
- **Before taking a long trip, or whenever you have loaded your vehicle heavily, use a tire pressure gauge to ensure that the tire pressure is at the specified level.**
- **Do not drive your vehicle over 85 MPH (140 km/h) unless it is equipped with high speed capability tires. Driving faster than 85 MPH (140 km/h) may result in tire failure, loss of control and possible injury.**

TYPES OF TIRES

⚠ CAUTION

When changing or replacing tires, be sure all four tires are of the same type (i.e., summer, all season or snow) and construction. Your NISSAN dealer may be able to help you with information about tire type, size, speed rating and availability. Replacement tires may have a lower speed rating than the factory equipped tires, and may not match the potential maximum vehicle speed. Never exceed the maximum speed rating of the tire.

All season tires

NISSAN specifies all season tires on some models to provide good performance for use all year around, including snowy and icy road conditions. All season tires are identified by ALL SEASON and/or M&S on the tire sidewall.

Snow tires have better snow traction than all season tires and may be more appropriate in some areas.

Summer tires

NISSAN specifies summer tires on some models to provide superior performance on dry roads. Summer tire performance in snow and ice will be substantially reduced. Summer tires do not have the tire traction rating M&S on the tire sidewall.

If you operate your vehicle in snowy or icy conditions, NISSAN recommends the use of snow or all season tires on all four wheels.

Snow tires

If snow tires are needed, it is necessary to select tires equivalent in size and load rating to the original equipment tires. If you do not, it can adversely affect the safety and handling of your vehicle.

Generally, snow tires will have lower speed ratings than factory equipped tires and may not match the potential maximum vehicle speed. Never exceed the maximum speed rating of the tire.

If you operate your vehicle in snowy or icy conditions, NISSAN recommends the use of snow or all season tires on all four wheels.

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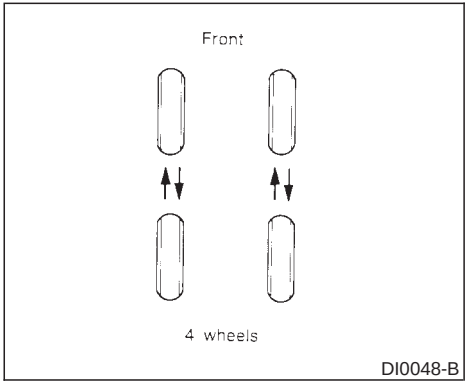
For additional traction on icy roads, studded tires may be used. However, some provinces and states prohibit their use. Check local, state and provincial laws before installing studded tires. Skid and traction capabilities of studded snow tires, on wet or dry surfaces, may be poorer than that of non-studded snow tires.

TIRE CHAINS

Use of tire chains may be prohibited according to location. Check the local laws before installing tire chains. When installing tire chains, make sure they are of proper size for the tires on your vehicle and are installed according to the chain manufacturer's suggestions. **Use only SAE class S chains.** Other types may damage your vehicle. Use chain tensioners when recommended by the tire chain manufacturer to ensure a tight fit. Loose end links of the tire chain must be secured or removed to prevent the possibility of whipping action damage to the fenders or undercarriage. If possible, avoid fully loading your vehicle when using tire chains. In addition, drive at a reduced speed. Otherwise, your vehicle may be damaged and/or vehicle handling and performance may be adversely affected.

Never install tire chains on a T-type spare tire. Do not use the chains on dry roads.



CHANGING TIRES AND WHEELS

Tire rotation

NISSAN recommends that tires be rotated every 7,500 miles (12,000 km).

Wheel nut tightening torque:
72 to 87 ft-lb (98 to 118 N·m)

See "Flat tire" in the "6. In case of emergency" section for tire replacing procedures.

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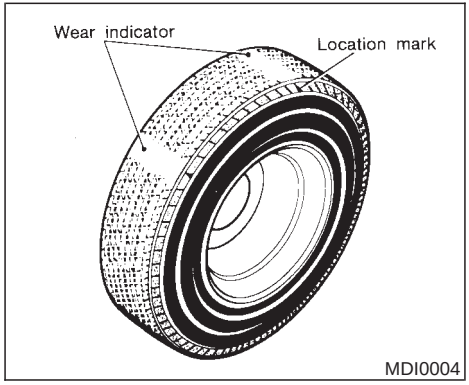
WARNING

- **After rotating the tires, adjust the tire pressure.**
- **Retighten the wheel nuts after the aluminum wheels have been run for the first 600 miles (1,000 km) (also in cases of a flat tire, etc.).**
- **Do not include the T-type spare tire or any other small size spare tire in the tire rotation.**



Tire wear and damage

WARNING

Tires should be periodically inspected for wear, cracking, bulging, or objects caught in the tread. If excessive wear, cracks, bulging, or deep cuts are found, the tire should be replaced.

The original tires have a built-in tread wear indicator. When the wear indicator is visible, the tire should be replaced.

Improper service for a T-type spare tire may result in serious personal injury. If it is necessary to repair the T-type spare tire, contact your NISSAN dealer.

Replacing tires and wheels

When replacing a tire, use the same size, speed rating and load carrying capacity as originally equipped. See “Specifications” in the “10. Technical and consumer information” section for recommended types and sizes of tires and wheels.

WARNING

- **The use of tires other than those recommended or the mixed use of tires of different brands, construction (bias, bias-belted or radial), or tread patterns can adversely affect the ride, braking, handling, ground clearance, body-to-tire clearance, tire chain clearance, speedometer calibration, headlight aim and bumper height. Some of these effects may lead to accidents and could result in serious personal injury.**
- **If the wheels are changed for any reason, always replace with wheels**

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which have the same offset dimension. Wheels of a different offset could cause early tire wear, possibly degraded vehicle handling characteristics and/or interference with the brake discs. Such interference can lead to decreased braking efficiency and/or early brake pad wear.

- **Do not install a deformed wheel or tire even if it has been repaired. Such wheels or tires could have structural damage and could fail without warning.**
- **The use of retread tire is not recommended.**

Wheel balance

Unbalanced wheels may affect vehicle handling and tire life. Even with regular use, wheels can get out of balance. Therefore, they should be balanced as required.

Wheel balance service should be performed with the wheels off the vehicle. Spin balancing the front wheels on the vehicle could lead to transmission damage.

Care of wheels

- Wash the wheels when washing the vehicle to maintain their appearance.
- Clean the inner side of the wheels when the wheel is changed or the underside of the vehicle is washed.
- Do not use abrasive cleaners when washing the wheels.
- Inspect wheel rims regularly for dents or corrosion. Such damage may cause loss of pressure or poor seal at the tire bead.
- NISSAN recommends that the road wheels be waxed to protect against road salt in areas where it is used during winter.

Spare tire (T-type spare tire)

Observe the following precautions if the T-type spare tire must be used, otherwise your vehicle could be damaged or involved in an accident.

⚠ CAUTION

- **The T-type spare tire should be used only for emergency. It should be replaced by the standard tire at the first opportunity.**
- **Drive carefully while the T-type spare tire is installed.**

  Avoid sharp turns and abrupt braking while driving.
- **Periodically check tire inflation pressure, and always keep it at 60 psi (420 kPa, 4.2 bar).**
- **Do not drive your vehicle at speeds faster than 50 MPH (80 km/h).**
- **Do not use tire chains on a T-type spare tire. Tire chains will not fit properly on the T-type spare tire and may cause damage to the vehicle.**
- **When driving on roads covered with snow or ice, the T-type spare tire should be used on the rear wheel and the original tire used on the front wheels (drive wheels). Use tire chains only on the front two original tires.**

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- **Tire tread of the T-type spare tire will wear at a faster rate than the original tire. Replace the T-type spare tire as soon as the tread wear indicators appear.**
- **Because the T-type spare tire is smaller than the original tire, ground clearance is reduced. To avoid damage to the vehicle do not drive over obstacles. Also do not drive the vehicle through an automatic car wash since it may get caught.**
- **Do not use the T-type spare tire on other vehicles.**
- **Do not use more than one T-type spare tire at the same time.**
- **Do not tow a trailer while the T-type spare tire is installed.**

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9 Maintenance

General maintenance 9-3
Periodic maintenance schedules 9-5

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Your new NISSAN has been designed to have minimum maintenance requirements with longer service intervals to save you both time and money. However, some day-to-day and regular maintenance is essential to maintain your NISSAN's good mechanical condition, as well as its emission and engine performance.

It is the owner's responsibility to make sure that the specified maintenance, as well as general maintenance, is performed.

As the vehicle owner, you are the only one who can ensure that your vehicle receives the proper maintenance care. You are a vital link in the maintenance chain.

General maintenance:

General maintenance includes those items which should be checked during normal day-to-day operation of the vehicle. They are essential if your vehicle is to continue to operate properly. It is your responsibility to perform these procedures regularly as prescribed.

These checks or inspections can be done by yourself, a qualified technician or, if you prefer, your NISSAN dealer.

Periodic maintenance:

The maintenance items listed in this part are required to be serviced at regular intervals.

However, under severe driving conditions, additional or more frequent maintenance will be required.

Where to go for service:

If maintenance service is required or your vehicle appears to malfunction, have the systems checked and tuned by an authorized NISSAN dealer.

NISSAN technicians are well-trained specialists and are kept up to date with the latest service information through technical bulletins, service tips, and in-dealership training programs. They are completely qualified to work on NISSAN's vehicles **before** they work on your vehicle, rather than after they have worked on it.

You can be confident that your NISSAN dealer's service department performs the best job to meet the maintenance requirements on your vehicle — in a reliable and economic way.

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During the normal day-to-day operation of the vehicle, general maintenance should be performed regularly as prescribed in this section. If you detect any unusual sounds, vibrations or smell, be sure to check for the cause or have your NISSAN dealer do it promptly. In addition, you should notify your NISSAN dealer if you think that repairs are required.

When performing any checks or maintenance work, see “Maintenance precautions” in the “8. Do-it-yourself” section.

EXPLANATION OF MAINTENANCE ITEMS

Additional information on the following items with “*” is found in the “8. Do-it-yourself” section.

Outside the vehicle

The maintenance items listed here should be performed from time to time, unless otherwise specified.

Tires*: Check the pressure with a gauge periodically when at a service station, including the spare, and adjust to the specified pressure if necessary. Check carefully for damage, cuts or excessive wear.

Wheel nuts*: When checking the tires, make sure no nuts are missing, and check for any loose nuts. Tighten if necessary.

Tire rotation*: Tires should be rotated every 7,500 miles (12,000 km).

Wheel alignment and balance: If the vehicle pulls to either side while driving on a straight and level road, or if you detect uneven or abnormal tire wear, there may be a need for wheel alignment.

If the steering wheel or seat vibrates at normal highway speeds, wheel balancing may be needed.

Windshield wiper blades*: Check for cracks or wear if they do not wipe properly.

Doors and engine hood: Check that all doors and the engine hood operate smoothly as well as the trunk lid or back hatch. Also make sure that all latches lock securely. Lubricate if necessary. Make sure that the secondary latch keeps the hood from opening when the primary latch is released.

When driving in areas using road salt or other corrosive materials, check lubrication frequently.

Inside the vehicle

The maintenance items listed here should be checked on a regular basis, such as when performing periodic maintenance, cleaning the vehicle, etc.

Lights*: Make sure that the headlights, stop lights, tail lights, turn signal lights, and other lights are all operating properly and installed securely. Also check headlight aim.

Warning lights and buzzers: Make sure that all warning lights and buzzers are operating properly.

Windshield wiper and washer*: Check that the wipers and washer operate properly and that the wipers do not streak.

Windshield defroster: Check that the air comes out of the defroster outlets properly and in good quantity when operating the heater or air conditioner.

Steering wheel: Check for changes in the steering conditions, such as excessive free play, hard steering or strange noises.

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Seats: Check seat position controls such as seat adjusters, seatback recliner, etc. to ensure they operate smoothly and that all latches lock securely in every position. Check that the head restraints move up and down smoothly and that the locks (if equipped) hold securely in all latched positions.

Seat belts: Check that all parts of the seat belt system (for example, buckles, anchors, adjusters and retractors) operate properly and smoothly, and are installed securely. Check the belt webbing for cuts, fraying, wear or damage.

Accelerator pedal: Check the pedal for smooth operation and make sure the pedal does not catch or require uneven effort. Keep the floor mats away from the pedal.

Clutch pedal*: Make sure the pedal operates smoothly and check that it has the proper free play.

Brakes: Check that the brakes do not pull the vehicle to one side when applied.

Brake pedal and booster*: Check the pedal for smooth operation and make sure it has the proper distance under it when depressed fully. Check the brake booster function. Be sure to keep floor mats away from the pedal.

Parking brake*: Check that the lever has the proper travel and make sure that the vehicle is held securely on a fairly steep hill when only the parking brake is applied.

Automatic transaxle P (Park) position mechanism: Check that the brake pedal must be depressed for the selector lever to be moved from the P (Park) position. On a fairly steep hill check that the vehicle is held securely with the selector lever in the P (Park) position without applying any brakes.

Under the hood and the vehicle

The maintenance items listed here should be checked periodically (for example, each time you check the engine oil or refuel).

Windshield washer fluid*: Check that there is adequate fluid in the tank.

Engine coolant level*: Check the coolant level when the engine is cold.

Radiator and hoses: Check the front of the radiator and clean off any dirt, insects, leaves, etc., that may have accumulated. Make sure the hoses have no cracks, deformation, deterioration or loose connections.

Brake and clutch fluid levels*: Make sure that the brake and clutch fluid levels are between the MAX and MIN lines on the reservoir.

Battery*: Check the fluid level in each cell. It should be between the MAX and MIN lines.

Engine drive belts*: Make sure that no belt is frayed, worn, cracked or oily.

Engine oil level*: Check the level on the dipstick after parking the vehicle on a level spot and turning off the engine. Be sure to wait a few minutes to allow the oil to drain back into the sump.

Power steering fluid level* and lines: Check the level in the reservoir tank with the engine off. Check the lines for proper attachment, leaks, cracks, etc.

Automatic transaxle fluid level*: Check the level on the dipstick after putting the selector lever in P (Park) position with the engine idling.

Exhaust system: Make sure there are no loose supports, cracks or holes. If the sound of the exhaust seems unusual or there is a smell of exhaust fumes, immediately locate the trouble and correct it.

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(See “Precautions when starting and driving” in the “5. Starting and driving” section for exhaust gas (carbon monoxide).)

Underbody: The underbody is frequently exposed to corrosive substances such as those used on icy roads or to control dust. It is very important to remove these substances, otherwise rust will form on the floor pan, frame, fuel lines and around the exhaust system. At the end of winter, the underbody should be thoroughly flushed with plain water, being careful to clean those areas where mud and dirt may accumulate. For additional information, see “Cleaning exterior” in the “7. Appearance and care” section.

Fluid leaks: Check under the vehicle for fuel, oil, water or other fluid leaks after the vehicle has been parked for a while. Water dripping from the air conditioner after use is normal. If you should notice any leaks or if gasoline fumes are evident, check for the cause and have it corrected immediately.

PERIODIC MAINTENANCE SCHEDULES

To ensure smooth, trouble-free, safe and economical driving, NISSAN provides two different maintenance schedules that may be used, depending upon the conditions in which you usually drive. These schedules contain both distance and time intervals, up to 60,000 miles (96,000 km)/48 months. For most people, the odometer reading will indicate when service is needed. However, if you drive very little, your vehicle should be serviced at the regular time intervals shown in the schedule. **After 60,000 miles (96,000 km) or 48 months, continue the periodic maintenance at the same mileage/time intervals.**

SCHEDULE 1

Follow Periodic Maintenance Schedule 1 if your driving habits frequently include one or more of the following driving conditions:

- **repeated short trips of less than 5 miles (8 km).**
- **repeated short trips of less than 10 miles (16 km) with outside temperatures remaining below freezing.**
- **operating in hot weather in stop-and-go rush hour traffic.**
- **extensive idling and/or low speed driving for long distances, such as police, taxi or door-to-door delivery use.**
- **driving in dusty conditions.**
- **driving on rough, muddy, or salt spread roads.**
- **towing a trailer, using a camper or a car-top carrier.**

SCHEDULE 2

Follow Periodic Maintenance Schedule 2 if none of the driving conditions shown in Schedule 1 apply to your driving habits.

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SCHEDULE 1

Abbreviations: R = Replace I = Inspect. Correct or replace if necessary. [ ]: At the mileage intervals only

MAINTENANCE OPERATION		MAINTENANCE INTERVAL															
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000	3.75	7.5	11.25	15	18.75	22.5	26.25	30	33.75	37.5	41.25	45	48.75	52.5	56.25	60
	(km x 1,000)	(6)	(12)	(18)	(24)	(30)	(36)	(42)	(48)	(54)	(60)	(66)	(72)	(78)	(84)	(90)	(96)
	Months	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48
Emission control system maintenance																	
Drive belts	See NOTE (1)																I*
Air cleaner filter	See NOTE (2)								[R]								[R]
EVAP vapor lines									I*								I*
Fuel lines									I*								I*
Fuel filter	See NOTE (3)*																
Engine coolant	See NOTE (4)																R*
Engine oil		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Engine oil filter (Use part No. 15208-31U00 or equivalent)		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Spark plugs (Use PLATINUM-TIPPED type)																	[R]
Intake & exhaust valve clearance	See NOTE (5)																

NOTE: (1) After 60,000 miles (96,000 km) or 48 months, inspect every 15,000 miles (24,000 km) or 12 months.

(2) If operating mainly in dusty conditions, more frequent maintenance may be required.

(3) If vehicle is operated under extremely adverse weather conditions or in areas where ambient temperatures are either extremely low or extremely high, the filters might become clogged. In such an event, replace them immediately.

(4) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months.

(5) If valve noise increases, inspect valve clearance.

(6) Maintenance items and intervals with "*" are recommended by NISSAN for reliable vehicle operation. The owner need not perform such maintenance in order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required.

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Abbreviations: I = Inspect. Correct or replace if necessary.

MAINTENANCE OPERATION		MAINTENANCE INTERVAL															
	Miles x 1,000	3.75	7.5	11.25	15	18.75	22.5	26.25	30	33.75	37.5	41.25	45	48.75	52.5	56.25	60
Perform at number of miles, kilometers or months, whichever comes first.	(km x 1,000)	(6)	(12)	(18)	(24)	(30)	(36)	(42)	(48)	(54)	(60)	(66)	(72)	(78)	(84)	(90)	(96)
	Months	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48
Chassis and body maintenance																	
Brake lines & cables					I				I				I				I
Brake pads & discs			I		I		I		I		I		I		I		I
Manual & automatic transaxle oil	See NOTE (1).				I				I				I				I
Steering gear & linkage, axle & suspension parts			I		I		I		I		I		I		I		I
Exhaust system			I		I		I		I		I		I		I		I
Front drive shaft boots			I		I		I		I		I		I		I		I
Supplemental air bag system	See NOTE (2).																

NOTE: (1) If towing a trailer, using a camper or a car-top carrier, or driving on rough or muddy roads, change (not just inspect) oil at every 30,000 miles (48,000 km) or 24 months.

(2) Inspect the supplemental air bag system 10 years after the date of manufacture noted on the F.M.V.S.S. certification label.

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SCHEDULE 2

Abbreviations: R = Replace I = Inspect. Correct or replace if necessary. [ ]: At the mileage intervals only

MAINTENANCE OPERATION		MAINTENANCE INTERVAL							
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000	7.5	15	22.5	30	37.5	45	52.5	60
	(km x 1,000)	(12)	(24)	(36)	(48)	(60)	(72)	(84)	(96)
	Months	6	12	18	24	30	36	42	48
Emission control system maintenance									
Drive belts	See NOTE (1)								I*
Air cleaner filter					[R]				[R]
EVAP vapor lines					I*				I*
Fuel lines					I*				I*
Fuel filter	See NOTE (2)*								
Engine coolant	See NOTE (3)								R*
Engine oil		R	R	R	R	R	R	R	R
Engine oil filter (Use part No. 15208-31U00 or equivalent)		R	R	R	R	R	R	R	R
Spark plugs (Use PLATINUM-TIPPED type)									[R]
Intake & exhaust valve clearance	See NOTE (4)								

NOTE: (1) After 60,000 miles (96,000 km) or 48 months, inspect every 15,000 miles (24,000 km) or 12 months.

(2) If vehicle is operated under extremely adverse weather conditions or in areas where ambient temperatures are either extremely low or extremely high, the filters might become clogged. In such an event, replace them immediately.

(3) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months.

(4) If valve noise increases, inspect valve clearance.

(5) Maintenance items and intervals with "*" are recommended by NISSAN for reliable vehicle operation. The owner need not perform such maintenance in order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required.

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Abbreviations: I = Inspect. Correct or replace if necessary.

MAINTENANCE OPERATION		MAINTENANCE INTERVAL							
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000	7.5	15	22.5	30	37.5	45	52.5	60
	(km x 1,000)	(12)	(24)	(36)	(48)	(60)	(72)	(84)	(96)
	Months	6	12	18	24	30	36	42	48
Chassis and body maintenance									
Brake lines & cables			I		I		I		I
Brake pads & discs			I		I		I		I
Manual & automatic transaxle oil			I		I		I		I
Steering gear linkage, axle & suspension parts					I				I
Exhaust system					I				I
Front drive shaft boots			I		I		I		I
Supplemental air bag system	See NOTE (1).								

NOTE: (1) Inspect the supplemental air bag system 10 years after the date of manufacture noted on the F.M.V.S.S. certification label.

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EXPLANATION OF MAINTENANCE ITEMS

Additional information on the following items with "*" is found in the "8. Do-it-yourself" section.

Emission control system maintenance

Drive belts*: Check drive belts for wear, fraying or cracking and also for proper tension. Replace the drive belts if found damaged.

Air cleaner filter: Under normal driving conditions, the air cleaner filter should be replaced in accordance with the maintenance schedule. However, driving the vehicle in dusty areas may cause more rapid clogging of the element. Consequently, the element may have to be replaced more frequently.

EVAP vapor lines: Check EVAP vapor lines and connections for failure or looseness. If leaks are found, replace them.

Fuel lines: Check the fuel hoses, piping and connections for leaks, looseness or deterioration. Replace any parts if they are damaged.

Fuel filter: If the vehicle is operated under extremely adverse weather conditions or in areas where ambient temperatures are either extremely low or extremely high, the filter might become clogged. In such an event, replace the filter immediately.

Engine coolant*: Drain and flush the cooling system.

Engine oil & oil filter*: Under normal driving conditions, the engine oil and oil filter should be replaced in accordance with the maintenance schedule. However, under severe driving conditions, they may have to be replaced more frequently.

Spark plugs*: Replace with new plugs having the correct heat range.

Intake & exhaust valve clearance: Check the valve clearance if valve noise increases.

Chassis and body maintenance

Brake lines & cables: Check the brake lines and hoses (including brake booster vacuum hoses, connections & check valve) and parking brake cables for proper attachment, leaks, cracks, chafing, abrasion, deterioration, etc.

Brake pads & discs: Check these and the other neighboring brake components for wear, deterioration and leaks. Under severe driving conditions, they may have to be inspected more frequently.

Manual & automatic transaxle fluid*: Check the fluid level and visually inspect for signs of leakage.

Under severe driving conditions, the oil should be replaced at the specified interval.

Steering gear & linkage, axle & suspension parts, and drive shaft boots: Check for damage, looseness and leakage of oil or grease. Under severe driving conditions, more frequent inspection should be performed.

Exhaust system: Visually check the exhaust pipes, muffler, and hangers for proper attachment, leaks, cracks, chafing, abrasion, deterioration, etc. Under severe driving conditions, inspection should be performed more frequently.

Supplemental air bag, and supplemental side air bag (if so equipped) systems: Maintenance for the supplemental air bags or supplemental side air bags should be done by an authorized NISSAN dealer.

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MEMO

10 Technical and consumer information

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CAPACITIES AND RECOMMENDED FUEL/LUBRICANTS

The following are approximate capacities. The actual refill capacities may be a little different. When refilling, follow the procedure instructed in the "8. Do-it-yourself" section to determine the proper refill capacity.

	Capacity (Approximate)			Recommended specifications
	US measure	Imp measure	Liter	
Fuel	18-1/2 gal	15-3/8 gal	70	Unleaded gasoline with an octane rating of at least 91 AKI (RON 96)
Engine oil (Refill)				
With oil filter	4-1/4 qt	3-1/2 qt	4.0	• API SG or SH and Energy Conserving II*1, *2 • API Certification Mark*1, *2
Without oil filter	3-7/8 qt	3-1/4 qt	3.7	
Cooling system				
With reservoir	9 qt	7-1/2 qt	8.5	Anti-freeze coolant (Ethylene glycol base)
Reservoir	7/8 qt	3/4 qt	0.8	
Manual transmission gear oil	—	—	—	API GL-4, Viscosity SAE 80W-90 only
Automatic transmission fluid	Refill to the proper oil level according to the instructions in the "8. Do-it-yourself" section.			Nissan Matic "D" (Continental U.S. and Alaska) or Genuine Nissan Automatic Transmission Fluid (Canada).*3
Power steering fluid				Type DEXRON™III or equivalent
Brake and clutch fluid				Genuine Nissan Brake Fluid*4 or equivalent DOT 3 (US FMVSS No. 116)
Multi-purpose grease	—	—	—	NLGI No. 2 (Lithium soap base)
Air conditioning system refrigerant	—	—	—	HFC-134a (R-134a)
Air conditioning system lubricants	—	—	—	Nissan A/C System Oil Type S or exact equivalent

*1: For additional information, see later in "Capacities and recommended fuel/lubricants" for engine oil and oil filter recommendation.
*2: For additional information, see later in "Capacities and recommended fuel/lubricants" for recommended SAE viscosity number.
*3: Dexron™III/Mercon™ or equivalent may also be used. Outside the continental United States and Alaska contact a NISSAN dealer for more information regarding suitable fluids, including recommended brand(s) of Dexron™III/Mercon™ automatic transmission fluid.
*4: Available in mainland US through your NISSAN.

FUEL RECOMMENDATION

Unleaded premium gasoline with an octane rating of at least 91 AKI (Anti-Knock Index) number (Research octane number 96)

If unleaded premium gasoline is not available, unleaded regular gasoline with an octane rating of at least 87 AKI (Research octane number 91) can be used.

However, for maximum vehicle performance, the use of unleaded premium gasoline is recommended.

⚠ CAUTION

Using a fuel other than that specified could adversely affect the emission control devices and systems, and could also affect the warranty coverage.

Under no circumstances should a leaded gasoline be used, since this will damage the three-way catalyst.

Reformulated gasoline

Some fuel suppliers are now producing reformulated gasolines. These gasolines are specially designed to reduce vehicle emissions.

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NISSAN supports efforts towards cleaner air and suggests that you use reformulated gasoline when available.

Gasoline containing oxygenates

Some fuel suppliers sell gasoline containing oxygenates such as ethanol, MTBE and methanol with or without advertising their presence. NISSAN does not recommend the use of fuels of which the oxygenate content and the fuel compatibility for your NISSAN cannot be readily determined. If in doubt, ask your service station manager.

If you use oxygenate-blend gasoline, please take the following precautions as the usage of such fuels may cause vehicle performance problems and/or fuel system damage.

- **The fuel should be unleaded and have an octane rating no lower than that recommended for unleaded gasoline.**
- **If an oxygenate-blend, excepting a methanol blend, is used, it should contain no more than 10% oxygenate. (MTBE may, however, be added up to 15%.)**
- **If a methanol blend is used, it should contain no more than 5% methanol (methyl alcohol, wood alcohol). It should also contain a suitable amount of appropriate cosolvents and corrosion inhibitors. If not properly formulated with appropriate cosolvents and corrosion inhibitors, such methanol blends may cause fuel system damage and/or vehicle performance problems. At this time, sufficient data is not available to ensure that all methanol blends are suitable for use in NISSAN vehicles.**

If any undesirable driveability problems such as engine stalling and hard hot starting are experienced after using oxygenate-blend fuels, immediately change to a non-oxygenate fuel or a fuel with a low blend of MTBE.

Take care not to spill gasoline during refueling. Gasoline containing oxygenates can cause paint damage.

Aftermarket fuel additives

NISSAN does not recommend the use of any fuel additives (i.e. fuel injector cleaner, octane booster, intake valve deposit removers, etc.) which are sold commercially. Many of these additives intended for gum, varnish or deposit removal may contain active solvent or similar ingredients that can be harmful to the fuel system and engine.

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Octane rating tips

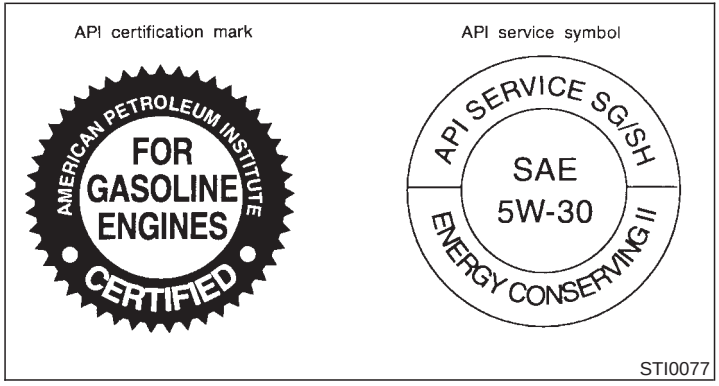
In most parts of North America, you should use unleaded gasoline with an octane rating of at least 87 or 91 AKI (Anti-Knock Index) number. However, you may use unleaded gasoline with an octane rating as low as 85 AKI number in these high altitude areas [over 4,000 ft (1,219 m)] such as: Colorado, Montana, New Mexico, Utah, Wyoming, northeastern Nevada, southern Idaho, western South Dakota, western Nebraska, and that part of Texas which is directly south of New Mexico.

Using unleaded gasoline with an octane rating lower than stated above can cause persistent, heavy spark knock. (Spark knock is a metallic rapping noise.) If severe, this can lead to engine damage. If you detect a persistent heavy spark knock even when using gasoline of the stated octane rating, or if you hear steady spark knock while holding a steady speed on level roads, have your dealer correct the condition. Failure to correct the condition is misuse of the vehicle, for which NISSAN is not responsible.

Incorrect ignition timing will result in knocking, after-run or overheating. This in turn may cause excessive fuel consumption or damage

to the engine. If any of the above symptoms are encountered, have your vehicle checked at a NISSAN dealer or other competent service facility.

However, now and then you may notice light spark knock for a short time while accelerating or driving up hills. This is no cause for concern, because you get the greatest fuel benefit when there is light spark knock for a short time under heavy engine load.



ENGINE OIL AND OIL FILTER RECOMMENDATION

Selecting the correct oil

It is essential to choose the correct quality, and viscosity oil to ensure satisfactory engine life and performance. NISSAN recommends the use of a low friction oil (energy conserving oil) in order to improve fuel economy and conserve energy. Oils which do not have the specified quality label should not be used as they could cause engine damage.

Only those engine oils with the American Petroleum Institute (API) certification mark on the front of the container should be used. This type of oil supersedes the existing API SG or SH and Energy Conserving II categories.

If you cannot find engine oil with the certification mark, an API SG or SH and Energy Conserving II oil with API service symbol may be used. An oil with a single designation SG or SH, or in combination with other categories (for example, SG/CC or SG/CD) may also be used if one with the API certification mark cannot be found.

Mineral based or synthetic type oils may be used in your NISSAN vehicle. These oils must however, meet the API quality and SAE vis-

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cosity ratings specified for your vehicle. Do not mix mineral based and synthetic type oils in the engine at the same time.

Oil additives

NISSAN does not recommend the use of oil additives. The use of an oil additive is not necessary when the proper oil type is used and maintenance intervals are followed.

Oil which may contain foreign matter or has been previously used should not be used.

Oil viscosity

The engine oil viscosity or thickness changes with temperature. Because of this, it is important that the engine oil viscosity be selected based on the temperatures at which the vehicle will be operated before the next oil change. The recommended SAE viscosity number chart shows the recommended oil viscosities for the expected ambient temperatures. Choosing an oil viscosity other than that recommended could cause serious engine damage.

Selecting the correct oil filter

Your new vehicle is equipped with a high-quality genuine NISSAN oil filter. When replacing, use the genuine oil filter or its equivalent for the reason described in change intervals.

Change intervals

The oil and oil filter change intervals for your engine are based on the use of the specified quality oils and filters. Oil and filter other than the specified quality, or oil and filter change intervals longer than recommended could reduce engine life. Damage to engines caused by improper maintenance or use of incorrect oil and filter quality and/or viscosity is not covered by the new NISSAN vehicle warranties.

Your engine was filled with a high quality engine oil when it was built. You do not have to change the oil before the first recommended change interval. Oil and filter change intervals depend upon how you use your vehicle. Operation under the following conditions may require more frequent oil and filter changes.

- repeated short distance driving at cold outside temperatures,
- driving in dusty conditions,
- extensive idling,
- towing a trailer.

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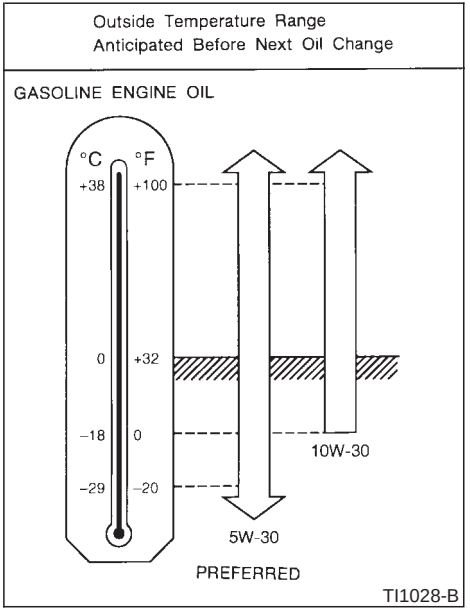
RECOMMENDED SAE VISCOSITY NUMBER



SAE 5W-30 viscosity oil is preferred for all ambient temperatures. SAE 10W-30 viscosity oil may be used if the ambient temperature is above 0°F (−18°C).

AIR CONDITIONING SYSTEM REFRIGERANT AND LUBRICANT RECOMMENDATIONS

The air conditioning system in this NISSAN vehicle must be charged with the refrigerant HFC-134a (R-134a) and the lubricant, Nissan A/C System Oil Type S or the exact equivalents.

⚠CAUTION

Use of any other refrigerant or lubricant will cause severe damage and you will need to replace your vehicle's entire air conditioning system.

The refrigerant HFC-134a (R-134a) in your NISSAN vehicle will not harm the earth's ozone layer. Although this refrigerant does not affect the earth's atmosphere, certain governmental regulations require the recovery and recycling of any refrigerant during automotive air conditioning system service. Your NISSAN dealer has the trained technicians and equipment needed to recover and recycle your air conditioning system refrigerant.

Contact your NISSAN dealer when servicing your air conditioning system.

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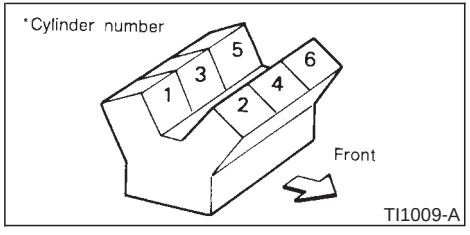
ENGINE

Model		VQ30DE
Type		Gasoline, 4-cycle
Cylinder arrangement		6-cylinder, V-slanted at 60°
Bore x Stroke	in (mm)	3.66 x 2.886 (93.0 x 73.3)
Displacement	cu in (cm^3)	182.33 (2,988)
Firing order		1-2-3-4-5-6*
Idle speed	rpm	See the emission control label on the underside of the hood.
Ignition timing (B.T.D.C.)	degree/rpm	
CO percentage at idle speed	[No air] %	
Spark plug	Standard	PFR5G-11
	Service option	PFR4G-11, PFR6G-11
Spark plug gap	in (mm)	—
Camshaft operation		Timing chain
Alternator belt size		
Width x Length	in (mm)	0.8409 x 43.11 (21.36 x 1,095)



The spark ignition system of this vehicle meets all requirements of the Canadian Interference-Causing Equipment Regulations.

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TIRES AND WHEELS

Road wheel	Steel		15 x 6JJ
	Offset	in (mm)	1.57 (40)
	Aluminum		15 x 6.5JJ 16 x 6.5JJ
	Offset	in (mm)	1.77 (45)
Tire size	Conventional		P205/65R15 92S P205/65R15 92H P215/55R16 91H
	Spare		Conventional*1 T125/70D16*2 T125/90D16*2, *3

*1: For CANADA
*2: For US
*3: For models with Viscous LSD

DIMENSIONS AND WEIGHTS

		Sedan
Overall length	in (mm)	189.4 (4,810)
Overall width	in (mm)	69.7 (1,770)
Overall height	in (mm)	55.7 (1,415)
Front tread	in (mm)	60.2 (1,530)*1 59.8 (1,520)*2
Rear tread	in (mm)	59.4 (1,510)*1 59.1 (1,500)*2
Wheelbase	in (mm)	106.3 (2,700)
Gross vehicle weight rating	lb (kg)	See the F.M.V.S.S. certification label on the driver's side lock pillar.
Gross axle weight rating		
Front	lb (kg)	
Rear	lb (kg)	

*1: For models with steel wheels
*2: For models with aluminum wheels

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WHEN TRAVELING OR REGISTERING YOUR VEHICLE IN ANOTHER COUNTRY

When planning to travel in another country, you should first find out if the fuel available is suitable for your vehicle's engine.

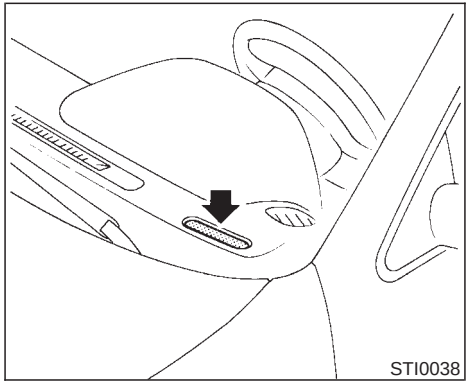
Using fuel with too low an octane rating may cause engine damage. All gasoline vehicles must be operated with unleaded engine gasoline. Therefore, avoid taking your vehicle to areas where appropriate fuel is not available.

When transferring the registration of your vehicle to another country, state, province or district, it may be necessary to modify the vehicle to meet local laws and regulations.

The laws and regulations for motor vehicle emission control and safety standards vary according to the country, state, province or district; therefore, vehicle specifications may differ.

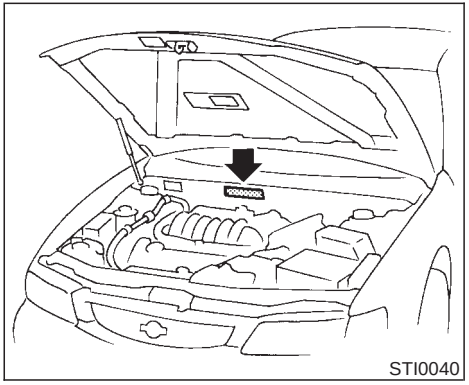
When any vehicle is to be taken into another country, state, province or district and registered, its modifications, transportation, and registration are the responsibility of the user. NISSAN is not responsible for any inconvenience that may result.

VEHICLE IDENTIFICATION



VEHICLE IDENTIFICATION NUMBER (VIN) PLATE

The vehicle identification number plate is attached as shown. This number is the identification for your vehicle and is used in the vehicle registration.



VEHICLE IDENTIFICATION NUMBER (Chassis number)

The number is stamped as shown.

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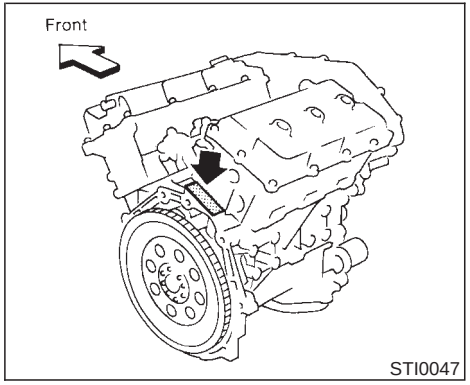
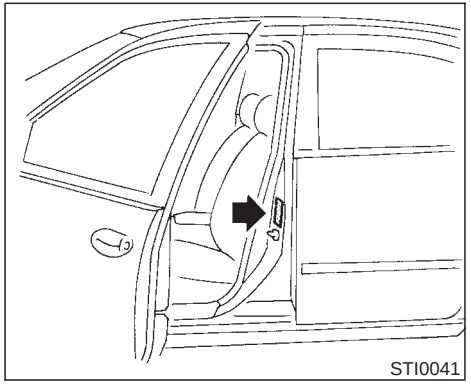


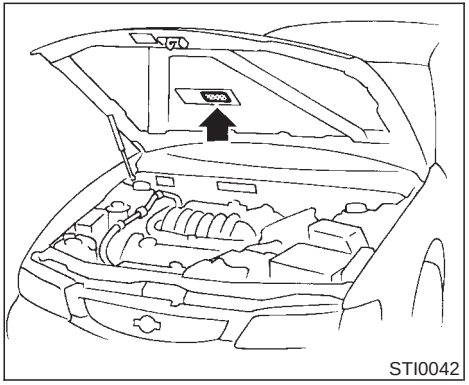
ENGINE SERIAL NUMBER

The number is stamped on the engine as shown.



F.M.V.S.S. CERTIFICATION LABEL

The Federal Motor Vehicle Safety Standards (F.M.V.S.S.) certification label is affixed as shown. This label contains valuable vehicle information, such as: Gross Vehicle Weight Ratings (GVWR), Gross Axle Weight Rating (GAWR), month and year of manufacture, Vehicle Identification Number, (VIN), etc. Review it carefully.



EMISSION CONTROL INFORMATION LABEL

The emission control information label is attached as shown.

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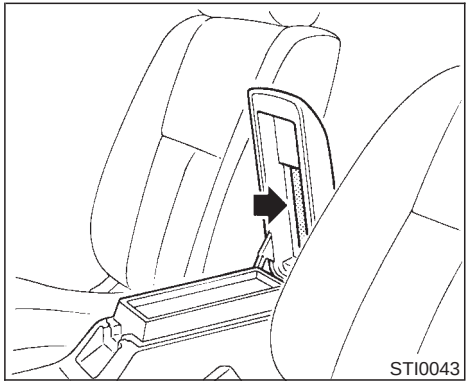
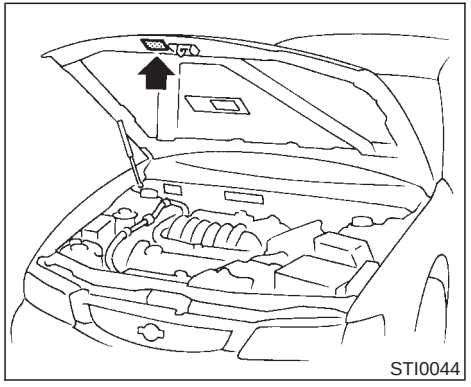


TIRE PLACARD

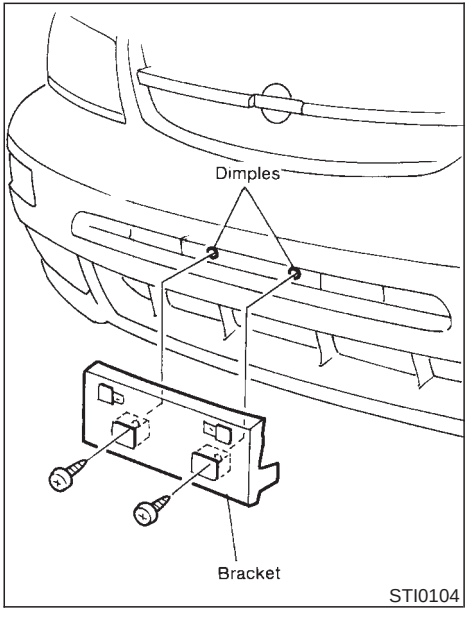
The cold tire pressure is shown on the tire placard affixed to the center console lid.



AIR CONDITIONER SPECIFICATION LABEL

The air conditioner specification label is affixed inside of the hood as shown.

INSTALLING FRONT LICENSE PLATE



Use the following steps to mount the license plate:

1. Mount the license plate bracket with 0.24 in (6 mm) diameter by 0.55 in (14 mm) long tapping screws.

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2. Mount the license plate with the 0.24 in (6 mm) bolts. The bolts used to fasten the license plate to the bracket are not included in the bracket assembly.

VEHICLE LOADING INFORMATION

⚠ WARNING

- **It is extremely dangerous to ride in a cargo area inside of a vehicle. In a collision, people riding in these areas are more likely to be seriously injured or killed**
- **Do not allow people to ride in any area of your vehicle that is not equipped with seats and seat belts.**
- **Be sure everyone in your vehicle is in a seat and using a seat belt properly.**

TERMS

It is important to familiarize yourself with the following terms before loading your vehicle:

- Curb Weight (actual weight of your vehicle) - vehicle weight including: standard and optional equipment, fluids, emergency tools, and spare tire assembly. This weight **does not** include passengers and cargo.
- GVW (Gross Vehicle Weight) - curb weight plus the combined weight of passengers and cargo.
- GVWR (Gross Vehicle Weight Rating) - maximum total weight (load) limit specified for the vehicle.
- GAWR (Gross Axle Weight Rating) - maximum weight (load) limit specified for the front or rear axle.

DETERMINING VEHICLE LOAD CAPACITY

The load capacity of this vehicle is determined by weight, not by available cargo space. For example, a luggage rack, bike carrier, cartop carrier or similar equipment does not increase load carrying capacity of your vehicle.

To determine vehicle load capacity:

Vehicle weight can be determined by using a commercial-grade scale, found at places such as a truck stop, gravel quarry, grain elevator, or a scrap metal recycling facility.

1. Determine the curb weight of your vehicle.
2. Compare the curb weight amount to the GVWR specified for your vehicle to determine how much more weight your vehicle can carry.
3. After loading (cargo and passengers), reweigh your vehicle to determine if either GVWR or GAWR for your vehicle is exceeded. If GVWR is exceeded, remove

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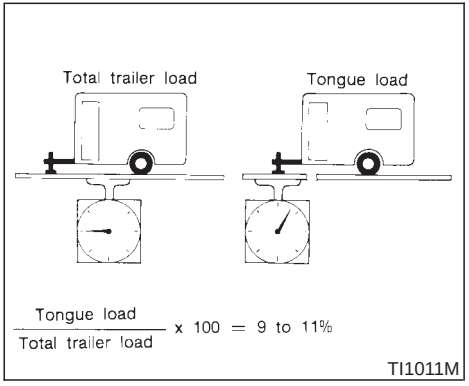
cargo as necessary. If either the front or rear GAWR is exceeded, shift the load or remove cargo as necessary.

LOADING TIPS

- The GVW must not exceed GVWR or GAWR as specified on the F.M.V.S.S. certification label.
- Do not load the front and rear axle to the GAWR. Doing so will exceed the GVWR.

⚠ WARNING

- **Properly secure all cargo to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**
- **Do not load your vehicle any heavier than the GVWR or the maximum front and rear GAWRs. If you do, parts on your vehicle can break, or it can change the way your vehicle handles. This could result in loss of control and cause personal injury.**
- **Overloading can shorten the life of your vehicle. Failures caused by overloading are not covered by your warranty.**



Your new vehicle was designed to be used primarily to carry passengers and cargo. Remember that towing a trailer will place additional loads on your vehicle's engine, drive train, steering, braking and other systems.

Information on trailer towing ability and the special equipment required should be obtained from your Nissan dealer. He can obtain a **Nissan Trailer Towing Guide** for you.

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MAXIMUM LOAD LIMITS

Maximum trailer loads

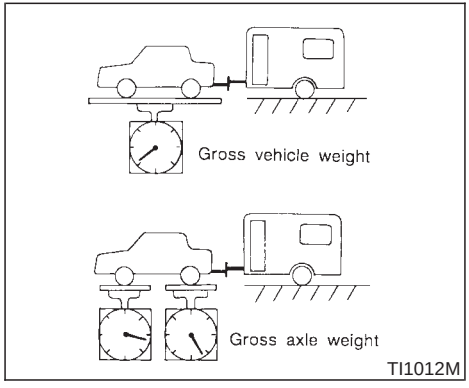
Never allow the total trailer load to exceed 1,000 lb (454 kg). The total trailer load equals trailer weight plus its cargo weight. Towing loads greater than 1,000 lb (454 kg) or using improper towing equipment could adversely affect vehicle handling, braking and performance.

⚠ WARNING

Vehicle damage and/or personal injury resulting from improper towing procedures is not covered by NISSAN warranties. Information on trailer towing and required towing equipment should be obtained from dealers who specialize in providing trailers or other towing equipment.

Tongue load

Keep the tongue load between 9 and 11% of the total trailer load. If the tongue load becomes excessive, rearrange cargo to allow for proper tongue load.



Maximum gross vehicle weight/ maximum gross axle weight

The gross vehicle weight of the towing vehicle must not exceed. GVWR shown on the F.M-.V.S.S. certification label. The gross vehicle weight equals the combined weight of the unloaded vehicle, passengers, luggage, hitch, trailer tongue load and any other optional equipment. In addition, front or rear gross axle weight must not exceed GAWR shown on the F.M.V.S.S. certification label.

TOWING LOAD/SPECIFICATION CHART Unit: lb (kg)	
MAXIMUM TOWING LOAD	1,000 (454)
MAXIMUM TONGUE LOAD	110 (49)

TOWING SAFETY

Trailer hitch

Choose a proper hitch for your vehicle and trailer. Make sure the trailer hitch is securely attached to the vehicle, to help avoid personal injury or property damage due to sway caused by crosswinds, rough road surfaces or passing trucks.

⚠ CAUTION

- **Do not use axle-mounted hitches.**
- **The hitch should not be attached to or affect the operation of the impact-absorbing bumper**
- **Do not modify the vehicle exhaust system, brake system, etc. when the hitch is installed.**

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- **To reduce the possibility of additional damage if your vehicle is struck from the rear, where practical, remove the hitch when not in use. Remove the receiver when not in use. After the hitch is removed, seal the bolt holes to prevent exhaust fumes, water or dust from entering the passenger compartment.**
- **Regularly check that all hitch mounting bolts are securely mounted.**

Tire pressures

- When towing a trailer, inflate the vehicle tires to the recommended cold tire pressure indicated on the tire placard (located on the inside of the center console lid.)
- Trailer tire condition, size, load rating and proper inflation pressure should be in accordance with the trailer and tire manufacturers' specifications.

Safety chain

Always use a suitable chain between your vehicle and the trailer. The chain should be crossed and should be attached to the hitch, not to the vehicle bumper or axle. Be sure to leave enough slack in the chain to permit turning corners.

Trailer lights

Trailer lights should comply with federal and/or local regulations. When wiring the vehicle for towing, connect the stop and tail light pickup into the vehicle electrical circuit at a point between the sensor and stop light or light switch.

Trailer brakes

If your trailer is equipped with a braking system, make sure it conforms to federal and/or local regulations and that it is properly installed.

⚠WARNING

Never connect a trailer brake system directly to the vehicle brake system.

Pre-towing tips

- Be certain your vehicle maintains a level position when a loaded and/or unloaded trailer is hitched. Do not drive the vehicle if it has an abnormal nose-up or nose-down condition; check for improper tongue load, overload, worn suspension or other possible causes of either condition.
- Always secure items in the trailer to prevent load shifts while driving.
- Be certain your rear view mirrors conform to all federal, state or local regulations. If not, install any mirrors required for towing before driving the vehicle.

Trailer towing tips

In order to gain skill and an understanding of the vehicle's behavior, you should practice turning, stopping and backing up in an area which is free from traffic. Steering stability, and braking performance will be somewhat different than under normal driving conditions.

- Always secure items in the trailer to prevent load shift while driving.
- Avoid abrupt starts, acceleration or stops.
- Avoid sharp turns or lane changes.
- Always drive your vehicle at a moderate speed.
- Always block the wheels on both vehicle and trailer when parking. Parking on a slope is not recommended; however, if you must do so, and if your vehicle is equipped with automatic transmission, first block the wheels and apply the parking brake, and

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then move the transmission selector lever into the P (Park) position. If you move the selector lever to the P (Park) position before blocking the wheels and applying the parking brake, transmission damage could occur.

- When going down a hill, shift into a lower gear and use the engine braking effect. When ascending a long grade, downshift the transmission to a lower gear and reduce speed to reduce chances of engine overloading and/or overheating.
- If the engine coolant rises to an extremely high temperature when the air conditioning system is on, turn off the air conditioner. Coolant heat can be additionally vented by opening the windows, switching the fan control to high and setting the temperature control to the HOT position.
- Trailer towing requires more fuel than normal circumstances.
- Avoid towing a trailer for the first 500 miles (800 km).
- Have your vehicle serviced more often than at intervals specified in the recommended maintenance schedule.
- When making a turn, your trailer wheels will be closer to the inside of the turn than your vehicle wheels. To compensate for this, make a larger than normal turning radius during the turn.
- Crosswinds and rough roads will adversely affect vehicle/trailer handling, possibly causing vehicle sway. When being passed by larger vehicles, be prepared for possible changes in crosswinds that could affect vehicle handling. If swaying does occur, firmly grip the steering wheel, steer straight ahead, and immediately (but gradually) reduce vehicle speed. This combination will help stabilize the vehicle. Never increase speed.
- Be careful when passing other vehicles. Passing while towing a trailer requires considerably more distance than normal passing. Remember the length of the trailer must also pass the other vehicle before you can safely change lanes.
- To maintain engine braking efficiency and electrical charging performance, do not use fifth gear (manual transmission) or overdrive (automatic transmission).
- Avoid holding the brake pedal down too long or too frequently. This could cause the brakes to overheat, resulting in reduced braking efficiency.

When towing a trailer, change oil in the transmission more frequently.

See “Periodic maintenance schedules” in the “9. Maintenance” section.

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UNIFORM TIRE QUALITY GRADING

DOT (Department Of Transportation) Quality Grades: All passenger car tires must conform to federal safety requirements in addition to these grades.

Treadwear

Treadwear grade is a comparative rating based on tire wear rate when tested under controlled conditions on specified government test courses. For example, a tire graded 150 would wear one and a half (1-1/2) times as well on the government course as a tire graded 100. However, relative tire performance depends on actual driving conditions, and may vary significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

Traction AA, A, B and C

The traction grades, from highest to lowest, are AA, A, B, and C. Those grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

⚠ WARNING

The traction grade assigned to your vehicle tires is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

Temperature A, B and C

Temperature grades are A (the highest), B, and C. They represent a tire's resistance to heat build-up, and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperature can cause tire material to degenerate, reducing tire life. Excessive temperatures can lead to sudden tire failure. Grade C corresponds to a performance level which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 109. Grades A and B represent higher levels of performance on laboratory test wheels than the minimum required by law.

⚠ WARNING

The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure.

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EMISSION CONTROL SYSTEM WARRANTY

Your NISSAN is covered by the following emission warranties.

For US:

- Emission Defects Warranty
- Emissions Performance Warranty

For Canada:

Emission Control System Warranty

Details of these warranties may be found with other vehicle warranties in your Warranty Information and Maintenance Log Booklet that comes with your NISSAN. If you did not receive a Warranty Information and Maintenance Log Booklet, or it has become lost, you may obtain a replacement by writing to:

- Nissan Motor Corporation U.S.A.
  Consumer Affairs Department
  P.O. Box 191
  Gardena. CA. 90248-0191
- Nissan Canada Inc.
  5290 Orbitor Drive
  Mississauga, Ontario,
  L4W 4Z5

REPORTING SAFETY DEFECTS (US only)

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying NISSAN.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or NISSAN.

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-800-424-9393 (or 366-0123 in Washington, D.C. area) or write to: NHTSA, U.S. Department of Transportation, Washington, D.C. 20590. You can also obtain other information about motor vehicle safety from the Hotline.

You may notify NISSAN by contacting our Consumer Affairs Department, toll-free, at 1-800-NISSAN-1.
In Hawaii call (808) 836-0888.

READINESS FOR INSPECTION/ MAINTENANCE (I/M) TEST (US only)

Due to legal requirements in some states/ areas, your vehicle may be required to be in what is called the ready condition for an Inspection/Maintenance (I/M) test of the emission control system.

The vehicle is set to the ready condition when it is driven through certain driving patterns. Usually, the ready condition can be obtained by ordinary usage of the vehicle.

If a powertrain system component is repaired or the battery is disconnected, the vehicle may be reset to a not ready condition. Before taking the I/M test, drive the vehicle through the following pattern to set the vehicle to the ready condition. If you cannot or do not want to perform the driving pattern, an NISSAN dealer can conduct it for you.

⚠ WARNING

Always drive the vehicle in a safe manner according to traffic conditions and obey all traffic laws.

1. Start the engine when the engine coolant temperature gauge needle points to C. Allow the engine to idle until the gauge needle points between the C and H (normal operating temperature).

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2. Accelerate the vehicle to 55 MPH (88 km/h), then quickly release the accelerator pedal completely and keep it released for at least 6 seconds.
3. Quickly depress the accelerator pedal for a moment, then drive the vehicle at a speed of 53 to 60 MPH (86 to 96 km/h) for at least 5 minutes.
4. Stop the vehicle.
5. Accelerate the vehicle to 35 MPH (55 km/h) and maintain the speed for 20 seconds.
6. Repeat steps 4 and 5 at least 3 times.
7. Accelerate the vehicle to 55 MPH (88 km/h) and maintain the speed for at least 3 minutes.
8. Stop the vehicle and turn the engine off.
9. Repeat steps 1 through 8 at least one more time.

If step 1 through 7 is interrupted, repeat the preceding step. Any safe driving mode is acceptable between steps. Do not stop the engine until step 7 is completed.

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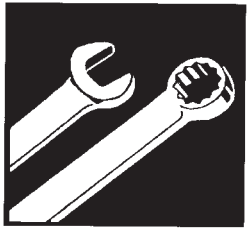
Genuine Nissan Service Manuals



GET THE INSIDE STORY

A Genuine Nissan Service Manual is the best source of service and repair information for your vehicle. Filled with wiring diagrams, illustrations and step-by-step diagnostic and adjustment procedures, this manual is the same one used by the factory trained technicians working at your Nissan dealership. Also available are Genuine NISSAN Owner's Manuals.

For current pricing and availability of a Genuine NISSAN Service Manual or Genuine NISSAN Owner's Manual, contact:

In the U.S.A.:

See your NISSAN dealer or contact:

Dyment Distribution Services
20770 Westwood Dr.
Strongsville OH 44136

In a hurry? Call 1-800-247-5321 and charge your purchase to Visa/Master Card.

In Canada:

To purchase a copy of a Genuine NISSAN Service Manual or Owner's Manual please contact your nearest NISSAN Dealer. For the phone number and location of a NISSAN Dealer in your area call the Nissan Satisfaction Center at 1-800-387-0122 and a bilingual NISSAN representative will assist you.

Also available are Genuine NISSAN Service and Owner's Manuals for older Nissan models.

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GAS STATION INFORMATION

FUEL RECOMMENDATION:

Unleaded premium gasoline with an octane rating of at least 91 AKI (Anti-Knock Index) number (Research octane number 96).

If unleaded premium gasoline is not available, unleaded regular gasoline with an octane rating of at least 87 AKI (Research octane number 91) can be used.

However, for maximum vehicle performance, the use of unleaded premium gasoline is recommended.

⚠CAUTION

Using a fuel other than that specified could adversely affect the emission control devices and systems, and could also affect the warranty coverage.

Under no circumstances should a leaded gasoline be used, since this will damage the three way catalyst.

For additional information, see “Capacities and recommended fuel/lubricants” in the “10. Technical and consumer information” section.

ENGINE OIL RECOMMENDATION:

- API SG or SH and Energy Conserving II
- API certification mark
- SAE 10W-30 viscosity oil is preferred for ambient temperatures above 0°F (−18°C).

See “Capacities and recommended fuel/lubricants” in the “10. Technical and consumer information” section for engine oil and oil filter recommendation.

COLD TIRE PRESSURES:

See tire placard affixed to the center console lid.

NEW VEHICLE BREAK-IN PROCEDURES RECOMMENDATION:

During the first 1,000 miles (1,600 km) of vehicle use, follow the recommendations outlined in the “Break-in schedule” Information found in the “5. Starting and driving” section of this Owner’s Manual. Follow these recommendations for the future reliability and economy of your new vehicle. Failure to follow these recommendations may result in vehicle damage or shortened engine life.

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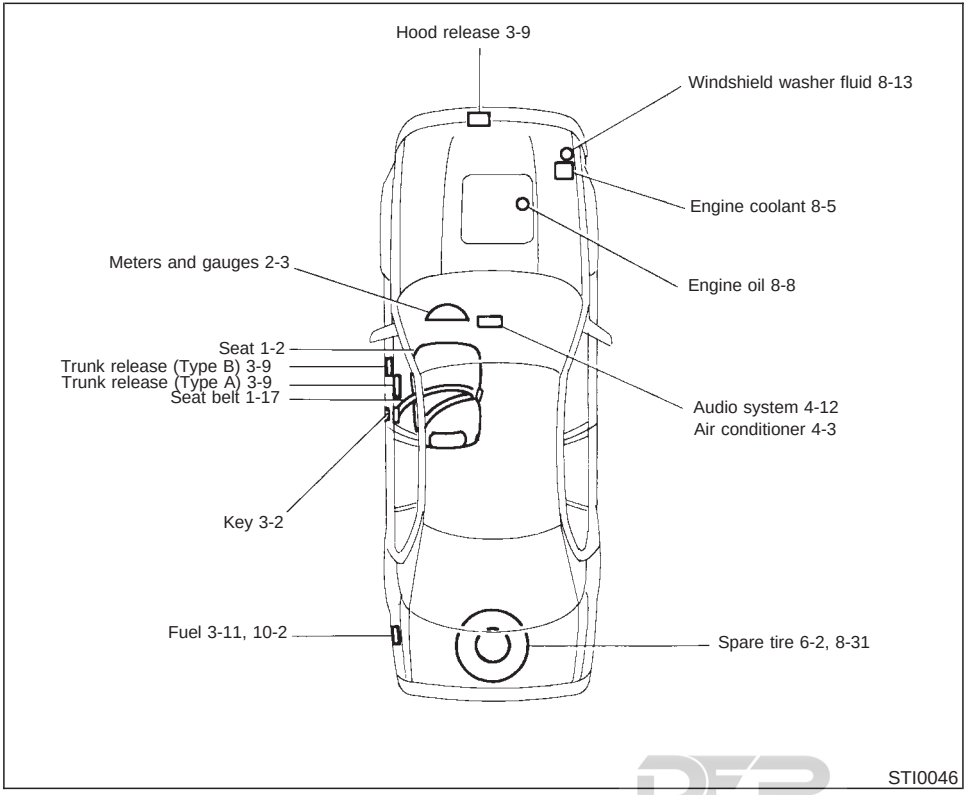

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